

# SERVICE MANUAL

DUAL	BAND FM TRANSCEIVER
	-2720H
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Icom Inc.

### INTRODUCTION

This service manual describes the latest service information for the IC-2720H DUAL BAND FM TRANSCEIVER at the time of publication

MODEL	VERSION	SYMBOL
	U.S.A.	USA
IC-2720H	Korea	KOR
IC-2/20H	S.E.Asia	SEA
	Export	EXP

To upgrade quality, any electrical or mechanical parts and internal circuits are subject to change without notice or obligation.

#### DANGER

**NEVER** connect the transceiver to an AC outlet or to a DC power supply that uses more than 16 V. This will ruin the transceiver.

**DO NOT** expose the transceiver to rain, snow or any liquids.

**DO NOT** reverse the polarities of the power supply when connecting the transceiver.

**DO NOT** apply an RF signal of more than 20 dBm (100 mW) to the antenna connector. This could damage the transceiver's front end.



### **ORDERING PARTS**

Be sure to include the following four points when ordering replacement parts:

- 1. 10-digit order numbers
- 2. Component part number and name
- 3. Equipment model name and unit name
- 4. Quantity required

### <SAMPLE ORDER>

1110004310 S.IC M62352GP IC-2720H MAIN UNIT 5 pieces 8810009610 Screw FH M2.6×6 ZK IC-2720H bottom cover 10 pieces Addresses are provided on the inside back cover for your convenience.

## **REPAIR NOTES**

- Make sure a problem is internal before disassembling the transceiver.
- DO NOT open the transceiver until the transceiver is disconnected from its power source.
- 3. **DO NOT** force any of the variable components. Turn them slowly and smoothly.
- 4. **DO NOT** short any circuits or electronic parts. An insulated tuning tool **MUST** be used for all adjustments.
- DO NOT keep power ON for a long time when the transceiver is defective.
- DO NOT transmit power into a signal generator or a sweep generator.
- ALWAYS connect a 50 dB to 60 dB attenuator between the transceiver and a deviation meter or spectrum analyzer when using such test equipment.
- 8. **READ** the instructions of test equipment thoroughly before connecting equipment to the transceiver.

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# SECTION 1 SPECIFICATIONS

### ■ GENERAL

 Frequency range LEFT SIDE

VERSION	RX (MHz)	TX (MHz)
[KOR]	144.000-146.000, 430.000-440.000	144.000–146.000, 430.000–440.000
[SEA]	136.000-179.995*², 430.000-440.000	140.000-150.000*², 430.000-440.000
[EXP]	118.000-549.995*2	136.000-174.000*2, 400.000-479.000*3
[USA]	118.000-549.995*2,*4	144.000–148.000, 430.000–450.000*4

#### **RIGHT SIDE**

VERSION	RX (MHz)	TX (MHz)
[KOR]	144.000–146.000, 430.000–440.000	144.000–146.000, 430.000–440.000
[SEA]	136.000-173.995*², 430.000-440.000	140.000-150.000*², 430.000-440.000
[EXP]	118.000–179.995*², 375.000–549.995*³ 810.000–999.990*⁵	136.000-174.000*², 400.000-479.000*³
[USA]	118.000-174.000*², 375.000-549.995*4, 810.000-824.000*5, 849.000-869.000*5, 894.000-999.990*5	144.000–148.000, 430.000–450.000*4

 $^{*1}\mbox{Guaranteed } 144.000 - 146.000$  MHz only,  $^{*2}\mbox{Guaranteed } 144.000 - 148.000$  MHz only,  $^{*3}\mbox{Guaranteed } 440.000 - 450.000$  MHz only

\*5Not guaranteed range

Mode : FM, AM (AM range is 118.0 – 135.995 MHz and Rx only for [USA] and [EXP].)

• Nomber of memory channel : 212 (including 2 call channels and 10 scan edges)

 $\begin{array}{ll} \bullet \text{ Usable temperature range} & : -10^{\circ}\text{C to } +60^{\circ}\text{C}; +14^{\circ}\text{F to } +140^{\circ}\text{F} \\ \bullet \text{ Frequency resolution} & : 5, 10, 12.5, 15, 20, 25, 30 \text{ and } 50 \text{ kHz} \\ \bullet \text{ Frequency stability} & : \pm 10 \text{ ppm } (-10^{\circ}\text{C to } +60^{\circ}\text{C}; +14^{\circ}\text{F to } +140^{\circ}\text{F}) \\ \end{array}$ 

• Power supply requirement : 13.8 V DC ±15 % (negative ground)

• Current drain (at 13.8 V DC) : Receive Standby (squelched) 1.2 A

Max. audio output 1.8 A

Transmit at VHF 50 W/UHF 35 W 12.0 A/11.0 A

• Antenna connector : SO-239 (50  $\Omega$ ) • DATA connector : Mini DIN 6 pin

 $\begin{array}{ll} \bullet \mbox{ Dimensions} & : \mbox{ Controller} & 140(W) \times 50(H) \times 27(D) \mbox{ mm; } 51/2(W) \times 131/32(H) \times 11/16(D) \mbox{ inch projections not included)} \\ & \mbox{ Main unit} & 140(W) \times 40(H) \times 187(D) \mbox{ mm; } 51/2(W) \times 19/16(H) \times 73/8(D) \mbox{ inch projections not included)} \\ \end{array}$ 

• Weight : Controller 150 g; 5.29 oz Main unit 1.4 kg; 3.0 lb

### **■ TRANSMITTER**

Output power
 VHF
 50 W/25 W/5 W (selectable)
 UHF
 35 W/25 W/5 W (selectable)

Modulation system : Variable reactance frequency

• Maximum frequency deviation: ±5.0 kHz

Spurious emissions : Less than –60 dB

• Microphone connector : 8-pin modular jack (600  $\Omega$ )

### **■** RECEIVER

Receive system
 Intermediate frequency (Left/right side band)
 Sensitivity
 Double-conversion superheterodyne
 1st IF 38.85 MHz/46.05 MHz 2nd IF 450 kHz/455 kHz
 Less than 0.18 μV (at 12 dB SINAD)
 Squelch sensitivity
 Less than 0.13 μV (at threshold)

• Selectivity : More than 12 kHz/–6 dB (Wide); More than 6 kHz/–6 dB (Narrow)

Less than 30 kHz/-60 dB (Wide); Less than 20 kHz/-60 dB (Narrow)

Spurious and image rejection: More than 60 dB

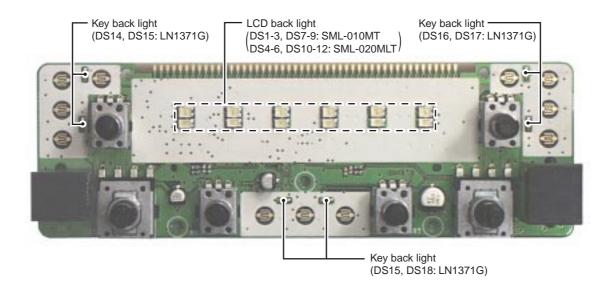
 • Audio output power (at 13.8 V)  $\,$  : More than 2.4 W at 10% distortion with an 8  $\Omega$  load

• External speaker connector : 2-conductor 3.5(d) mm ( $^{1}/_{8}$ ")/8  $\Omega$ 

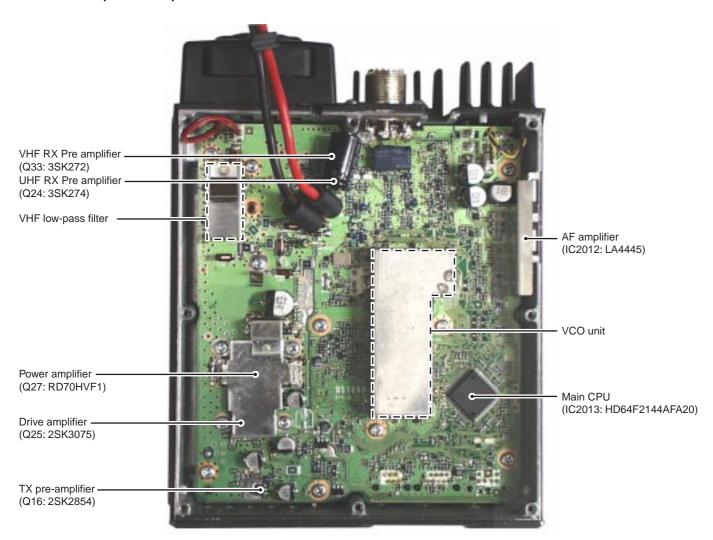
All stated specifications are subject to change without notice or obligation.

# **SECTION 2** INSIDE VIEWS

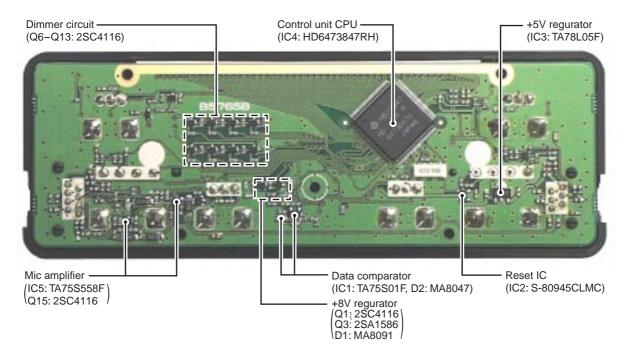
# • CONTROL UNIT (TOP VIEW)



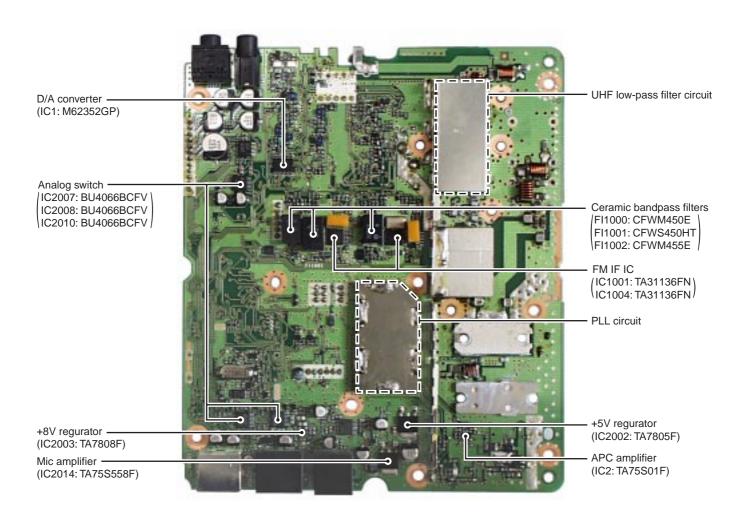
# • MAIN UNIT (TOP VIEW)



# • CONTROL UNIT (BOTTOM VIEW)



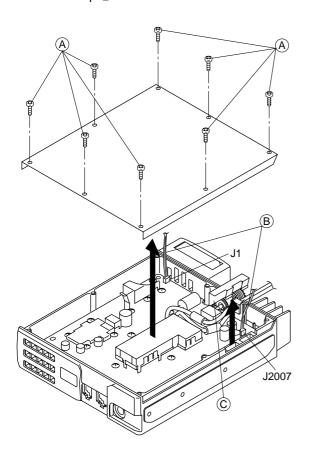
# • MAIN UNIT (BOTTOM VIEW)



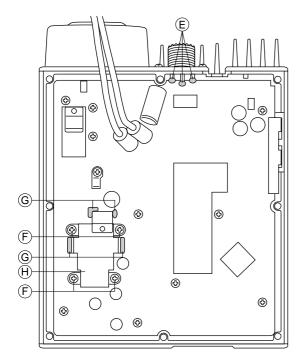
# **SECTION 3 DISASSEMBLY INSTRUCTIONS**

# • Removing the MAIN unit

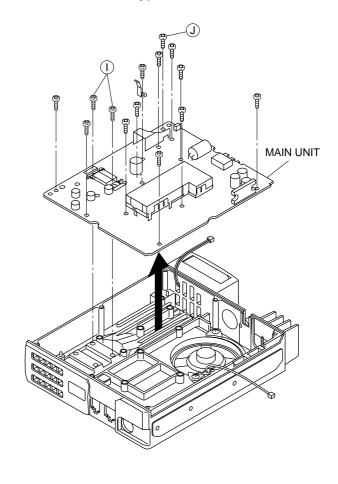
- ① Unscrew 8 screws (A), and remove the cover.
- $\ \, \ \, \ \, \ \, \ \, \ \, \ \,$  Disconnect two cables  $\ \, \ \, \ \, \ \, \ \, \ \,$  from J1 and J2007.
- 3 Remove the clip ©.



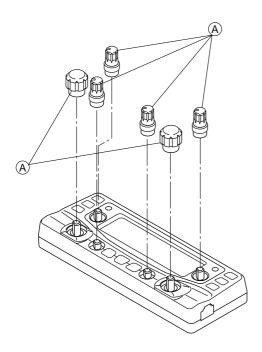
- 4 Unsolder 3 points (E).
- ⑤ Unscrew 4 screws ⑥.
- 6 Unsolder 4 points G, and remove the cover H.



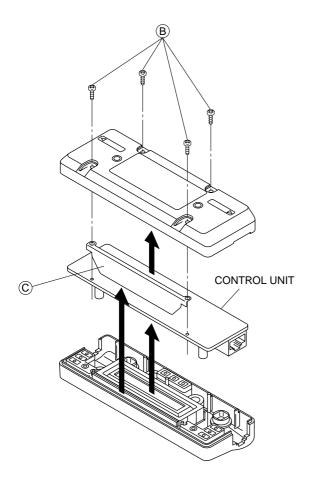
- 7 Unscrew 2 screws 1.
- ® Unscrew 12 screws ①, and remove MAIN unit.



# • Removing the CONTROL unit ① Remove 6 knobs ③.



- $\ensuremath{\mathfrak{D}}$  Unscrew 4 screws  $\ensuremath{\mathfrak{B}},$  and remove the cover.
- ③ Remove the plate ①, and remove CONTROL unit.



#### **CIRCUIT DESCRIPTION SECTION 4**

### 4-1 RECEIVER CIRCUITS

# 4-1-1 TRIPLEXER AND RX BAND SWITCHING **CIRCUITS (MAIN UNIT)**

The transceiver has a triplexer (low-pass and high-pass filters) on the first stage from the antenna connector to separate the signals into VHF and UHF signals. The RF signals from the antenna connector are applied to the tripler or RX band swtich circuits.

#### • RF SIGNALS V-V (118 MHz-180 MHz), U-V (136 MHz-174 MHz)

The V-V and U-V RF signals from the antenna connector pass through the low-pass filter (L76, L77, L80, C205, C209, C242, C243, C264), and then applied to the TX/RX switching circuit (D42, D46, D52, D67, D2049). The filtered signals are amplified at the pre-amplifier (Q33), and are applied to the left side or right side displayed RX circuits.

#### RF SIGNALS U-U, V-U2 (375 MHz-550 MHz)

The U-U and V-U2 RF signals from the antenna connector pass through the high-pass filter (L78, L81, C206, C210, C213, C265), and then applied to the TX/RX switching circuit (D55, D64, D65, D2050) via the SWR detector (D50, D58). The filtered signals are amplified at the pre-amplifier (Q24), and are applied to the left side or right side displayed RX circuits.

#### • RF SIGNALS U-U3 (810 MHz-1000 MHz)

The U-U3 RF signals from the antenna connector pass through the two low-pass filters (L76, L77, L80, C205, C209, C242, C243, C264, L87, L88, C266-C268), and are then applied to the RX band swtiching circuit (D2061). The filtered signals are amplified at the RF amplifier (Q18), and are applied to the right side displayed RX circuits.

### • RF SIGNALS V220 (174 MHz-260 MHz), V-U1 (225 MHz-375 MHz)

The V220 and V-U1 RF signals from the antenna connector are applied to the RX band swtiching circuit (Q34, D66, RL1). and are applied to the left side displayed RX circuit.

### 4-1-2 RF CIRCUIT FOR LEFT SIDE DISPLAY (MAIN UNIT)

### • RF SIGNALS V-V (118 MHz-180 MHz)

The amplified signals are applied to the RF amplifier (Q29) after being passed through the attenuator (D59) and bandpass filter (D47, D53). The signals are applied to the RX band switching circuit (D28) via the another bandpass filter (D32, D39) to supress the unwanted signals.

#### • RF SIGNALS V220 (174 MHz-260 MHz)

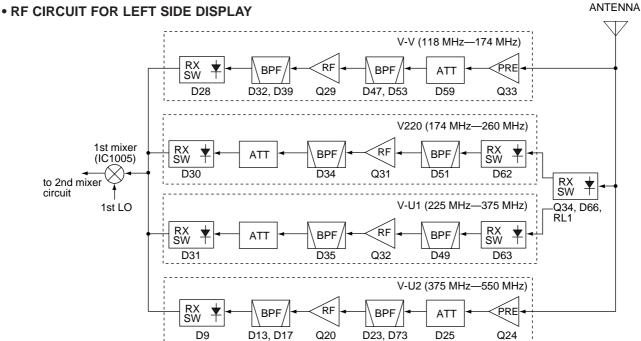
The signals are applied to the RF amplifier (Q31) after being passed through the RX band switching circuit (D62) and bandpass filter (D51). The amplified signals are applied to the RX band switching circuit (D28) via the another bandpass filter (D34) to supress the unwanted signals and attenuator (R195-R197).

## • RF SIGNALS V-U1 (225 MHz-375 MHz)

The signals are applied to the RF amplifier (Q32) after being passed through the RX band switching circuit (D63) and bandpass filter (D49). The amplified signals are applied to the RX band switching circuit (D31) via the attenuator (R198-R200) and another bandpass filter (D35) to supress the unwanted signals.

### • RF SIGNALS V-U2 (375 MHz-550 MHz)

The amplified signals are applied to the RF amplifier (Q20) after being passed through the attenuator (D25) and bandpass filter (D23, D73). The signals are applied to the RX band switching circuit (D9) via the another bandpass filter (D13, D17) to supress the unwanted signals.



The signals from the RX band swtiching circuits are then applied to the left side displayed 1st mixer circuit (IC1005, pin 6)

# 4-1-3 1ST MIXER AND 1ST IF CIRCUIT FOR LEFT SIDE DISPLAY (MAIN UNIT)

The 1st mixer circuit converts the received RF signals to a fixed frequency of the 1st IF signal with a PLL output frequency. By changing the PLL frequency, only the desired frequency will pass through the bandpass filter at the next stage of 1st mixer circuit.

The RF signals are mixed with 1st LO signals at the 1st mixer (IC1005) to produce a 38.85 MHz 1st IF signal. The 1st IF signal is output from pin 1, and passed through the crystal bandpass filter (FI1003) to suppress unwanted harmonic components. The filtered signal is amplified at the IF amplifier (Q1040) after being passed through the limiter circuit (D1021). The amplified signal is applied to the 2nd mixer circuit (IC1001).

# 4-1-4 2ND IF AND DEMODULATOR CIRCUITS FOR LEFT SIDE DISPLAY (MAIN UNIT)

The 2nd mixer circuit converts the 1st IF signal to a 2nd IF signal. A double conversion superheterodyne system (which converts receive signal twice) improves the image rejection ratio and obtains stable receiver gain.

The FM IC IC (IC1001) contains the 2nd mixer, limiter and noise amplifiers, quadrature detector, S-meter detector, active filter circuits, etc. A 2nd LO signal (38.4 MHz) is produced at the PLL circuit by dividing it's reference frequency.

The 38.85 MHz 1st IF signal from the IF amplifier (Q1040) is applied to the 2nd mixer section of the FM IF IC (IC1001, pin 16), and is mixed with the 2nd LO signal (38.4 MHz) to be converted to a 450 kHz 2nd IF signal.

The 2nd IF signal is applied to the each demodulator circuits by AM or FM mode.

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#### • FM MODE

The 2nd IF signal is output from the FM IF IC (IC1001, pin 3) and passes through the ceramic bandpass filter (FI1001). The filtered signal is fed back to the IC, and amplified at the limiter amplifier section (pin 5), then demodulated into AF signals at the quadrature detector section (pins 10, 11). The detected AF signals are output from pin 9 and are applied to the AF circuit via the AM/FM selector circuit (IC2015, pins 7, 1).

#### AM MODE

The 2nd IF signal is output from the FM IF IC (IC1001, pin 3) and passes through the ceramic bandpass filter (FI1000). The filtered signal is applied to the AM detector circuit (Q1017) to convert into AF signals, and then amplified at the Q1014 (pins 5, 1). The amplified AF signals are applied to the AF circuit via the AM/FM selector circuit (IC2015, pins 6, 1).

# 4-1-5 AF AMPLIFIER CIRCUIT FOR LEFT SIDE DISPLAY (MAIN UNIT)

The AF amplifier circuit amplifies the demodulated AF signals to drive a speaker.

The AF signals pass through the AF mute switch (Q1010), and are then applied to the electric volume control circuit (IC2011, pin 1) as "VAFO" signal after being passed through the low-pass filter (Q1007). The level controlled AF signals are output from pin 2, and are then applied to the AF power amplifier (IC2012, pin 2) via the "VOUT1" signal. The power amplified AF signals are applied to the internal speaker (SP1) via the [EXT SP] jack (J2005).

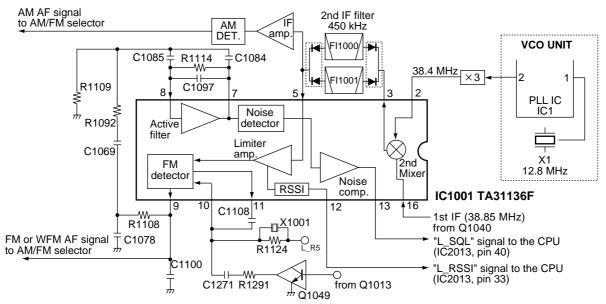
The electronic volume control circuit controls AF gain, therefore, the AF output level is according to the [VOL] setting and also the squelch conditions.

# 4-1-6 NOISE SQUELCH CIRCUIT FOR LEFT SIDE DISPLAY (MAIN UNIT)

### • NOISE SQUELCH

A noise squelch circuit cuts out AF signals when no RF signal is received. By detecting noise components in the AF signal, the squelch circuit switches the AF mute switch.

#### 2ND IF AND DEMODULATOR CIRCUIT FOR LEFT SIDE DISPLAY



A portion of the AF signals from the FM IF IC (IC1001, pin 9) are applied to the active filter section (IC1001, pin 8). The active filter section amplifies and filters noise components. The filtered signals are applied to the noise detector section and output from the IC1001 (pin 14) as the "L\_SQL" signal. The "L\_SQL" signal from IC1001 (pin 14) is applied to the CPU (IC2013, pin 40). The CPU analyzes the noise condition and outputs the "L\_DET\_MUTE" signal to the AF mute switch (Q1010).

#### • TONE SQUELCH

The tone squelch circuit detects AF signals and opens the squelch only when receiving a signal containing a matching subaudible tone (CTCSS). When tone squelch is in use, and a signal with a mismatched or no subaudible tone is received, the tone squelch circuit mutes the AF signals even when noise squelch is open.

A portion of the AF signals from the FM IF IC (IC1001, pin 9) passes through the low-pass filter (Q1003) to remove AF (voice) signals. The filtered signal is applied to the CTCSS decoder which is inside the CPU (IC2013, pin 41) via the "L\_DTCS\_IN" line to control the AF mute switch (Q1010).

# 4-1-7 RF CIRCUIT FOR RIGHT SIDE DISPLAY (MAIN UNIT)

#### • RF SIGNALS U-V (136 MHz-174 MHz)

The amplified signals are applied to the RF amplifier (Q30) after being passed through the attenuator (D60) and bandpass filter (D48, D54). The signals are applied to the RX band switching circuit (D29) via the another bandpass filter (D33, D40) to supress the unwanted signals.

### • RF SIGNALS U-U3 (810 MHz-1000 MHz)

The signals are applied to the RF amplifier (Q18) after being passed through the RX band switching circuit (D2061). The amplified signals pass through the attenuator (L19, C20, C46, C51, R178–R180) and high-pass filter (L20, C278, C279), and are then applied to the another RF amplifier (Q35) again. The signals pass through the attenuator (L10, C15, C280, R183–R185) and RX bamd switching circuit (D11).

### • RF SIGNALS V-U2 (375 MHz-550 MHz)

The amplified signals are applied to the RF amplifier (Q19) after being passed through the attenuator (D24) and bandpass filter (D22, D72). The signals are applied to the RX band switching circuit (D8) via the another bandpass filter (D12, D16) to supress the unwanted signals.

The signals from the RX band swtiching circuits are then applied to the right side displayed 1st mixer circuit (IC1006, pin 6).

# 4-1-8 1ST MIXER AND 1ST IF CIRCUIT FOR RIGHT SIDE DISPLAY (MAIN UNIT)

The 1st mixer circuit converts the received RF signals to a fixed frequency of the 1st IF signal with a PLL output frequency. By changing the PLL frequency, only the desired frequency will pass through the bandpass filter at the next stage of 1st mixer circuit.

The RF signals are mixed with 1st LO signals at the 1st mixer (IC1006) to produce a 46.05 MHz 1st IF signal. The 1st IF signal is output from pin 1, and passed through the crystal bandpass filter (FI1004) to suppress unwanted harmonic components. The filtered signal is amplified at the IF amplifier (Q1041) after being passed through the limiter circuit (D1022). The amplified signal is applied to the 2nd mixer circuit (IC1004).

# 4-1-9 2ND IF AND DEMODULATOR CIRCUITS FOR RIGHT SIDE DISPLAY (MAIN UNIT)

The 2nd mixer circuit converts the 1st IF signal to a 2nd IF signal. A double conversion superheterodyne system (which converts receive signal twice) improves the image rejection ratio and obtains stable receiver gain.

The FM IC IC (IC1004) contains the 2nd mixer, limiter and noise amplifiers, quadrature detector, S-meter detector, active filter circuits, etc. A 2nd LO signal (45.595 MHz) is produced at the PLL circuit by dividing it's reference frequency.

#### • RF CIRCUIT FOR RIGHT SIDE DISPLAY **ANTENNA** U-V (136 MHz-174 MHz) RF BPF BPF ΡRΕ **ATT** Q30 D29 D33, D40 D48, D54 D60 Q33 1st mixer U-U3 (810 MHz-1000 MHz) (IC1006) ŔF HPF to 2nd mixer circuit D11 Q35 Q18 D2061 1st LO V-U2 (375 MHz-550 MHz) RPF PRE BPF ATT D8 D12, D16 D22, D72 D24 Q24 Q19

The 46.05 MHz 1st IF signal from the IF amplifier (Q1041) is applied to the 2nd mixer section of the FM IF IC (IC1004, pin 16), and is mixed with the 2nd LO signal (45.595 MHz) to be converted to a 455 kHz 2nd IF signal.

The 2nd IF signal is applied to the each demodulator circuits by AM or FM mode.

#### • FM MODE

The 2nd IF signal is output from the FM IF IC (IC1004, pin 3) and passes through the ceramic bandpass filter (FI1002). The filtered signal is fed back to the IC, and amplified at the limiter amplifier section (pin 5), then demodulated into AF signals at the quadrature detector section (pins 10, 11). The detected AF signals are output from pin 9 and are applied to the AF circuit via the AM/FM selector circuit (IC2016, pins 7, 1).

#### AM MODE

The 2nd IF signal is output from the FM IF IC (IC1001, pin 3) and passes through the ceramic bandpass filter (FI1002).

The filtered signal is applied to the AM detector circuit (Q1025) to convert into AF signals, and then amplified at the Q1022 (pins 5, 1). The amplified AF signals are applied to the AF circuit via the AM/FM selector circuit (IC2016, pins 6, 1).

# 4-1-10 AF AMPLIFIER CIRCUIT FOR RIGHT SIDE DISPLAY (MAIN UNIT)

The AF amplifier circuit amplifies the demodulated AF signals to drive a speaker.

The AF signals pass through the AF mute switch (Q1011), and are then applied to the electric volume control circuit (IC2011, pin 8) as "UAFO" signal after being passed through the low-pass filter (Q1008). The level controlled AF signals are output from pin 7, and are then applied to the AF power amplifier (IC2012, pin 5) via the "VOUT2" signal. The power amplified AF signals are applied to the internal speaker (SP1) via the [EXT SP] jack (J2004).

When no plug is connected to the jack, the signals are fed back to the UHF audio input (IC2012, pin 2) and combined with the UHF audio. The mixed audio is applied to the other external speaker jack (J2005) and then to the internal speaker.

The electronic volume control circuit controls AF gain, therefore, the AF output level is according to the [VOL] setting and also the squelch conditions.

# 4-1-11 NOISE SQUELCH CIRCUIT FOR RIGHT SIDE DISPLAY (MAIN UNIT)

#### NOISE SQUELCH

A noise squelch circuit cuts out AF signals when no RF signal is received. By detecting noise components in the AF signal, the squelch circuit switches the AF mute switch.

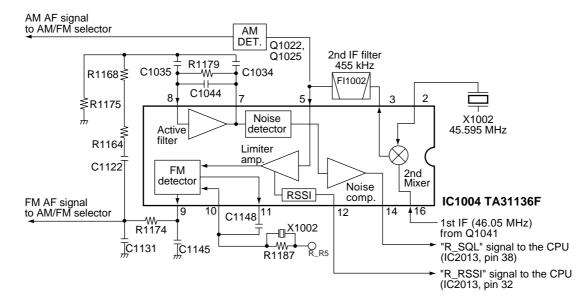
A portion of the AF signals from the FM IF IC (IC1004, pin 9) are applied to the active filter section (IC1004, pin 8). The active filter section amplifies and filters noise components. The filtered signals are applied to the noise detector section and output from the IC1004 (pin 14) as the "R\_SQL" signal. The "R\_SQL" signal from IC1004 (pin 14) is applied to the CPU (IC2013, pin 38). The CPU analyzes the noise condition and outputs the "R\_DET\_MUTE" signal (pin 58) to the AF mute switch (Q1011).

#### • TONE SQUELCH

The tone squelch circuit detects AF signals and opens the squelch only when receiving a signal containing a matching subaudible tone (CTCSS). When tone squelch is in use, and a signal with a mismatched or no subaudible tone is received, the tone squelch circuit mutes the AF signals even when noise squelch is open.

A portion of the AF signals from the FM IF IC (IC1004, pin 9) passes through the low-pass filter (Q1004) to remove AF (voice) signals. The filtered signal is applied to the CTCSS decoder which is inside the CPU (IC2013, pin 39) via the "R\_DTCS\_IN" line to control the AF mute switch (Q1011).

## • 2ND IF AND DEMODULATOR CIRCUIT FOR RIGHT SIDE DISPLAY



#### 4-2 TRANSMITTER CIRCUITS

# 4-2-1 MICROPHONE AMPLIFIER CIRCUIT (MAIN AND CONTROL UNITS)

The microphone amplifier circuit amplifies audio signals from the microphone to a level needed for the modulation circuit. The microphone amplifier circuit is commonly used for the both VHF and UHF bands.

#### • THE AF SIGNALS FROM THE MAIN UNIT

The AF signals from the microphone (J2001, pin 6) pass through the high-pass filter (Q2028), and are then applied to the microphone amplifier (IC2014, pin 3). The amplified signals are applied to the analog switch (IC2008, pin 1).

The microphone sensitivity is controlled by the microphone sensitivity controller (Q2023) via the "MIC\_SENS" line from the CPU (IC2023).

#### **•THE AF SIGNALS FROM THE CONTROL UNIT**

The AF signals from the microphone (CONTROL unit; J1, pin 6) are applied to the microphone amplifier (Q15, IC5 pin 3). The amplified signals pass through the J2, pin 2 via the "MIC" line, and are then applied to the analog switch (IC2008, pin 4).

The microphone sensitivity is controlled by the microphone sensitivity controller (Q2022) via the "MIC\_SENS" line from the CPU (IC2023).

The each AF signals (from IC2008, pins 1, 4) are applied to the IDC limiter amplifier section (IC1000a, pin 3), and then pass through the de-emphasis circuit (C1036, R1050). The signals pass through the splatter filter (IC1000d, pins13, 14), and are then applied to the buffer amplifier (IC1000c, pin 9). The amplified signals are applied to the D/A convertor IC (IC1009, pin 12) to control the modulation level.

### • THE DATA SIGNALS

## (1) 9600 bps mode

The data signals from the J2003, pin 1 are applied to the analog switch (IC2007, pin 4) after being passed through the limiter circuit (D2012). The signals pass through another analog swtich (IC2008, pins 9 and 8), and are then applied to the buffer amplifier (IC100c, pin 9) via the "DATAMOD" line. The amplified signals are applied to the D/A convertor IC (IC1009, pin 12) to control the modulation level.

### (2) 1200 bps mode

The data signals from the J2003, pin 1 are applied to the analog switch (IC2007, pin 4) after being passed through the limiter circuit (D2012). The signals pass through another analog swtich (IC2008, pins 10 and 11), and are then applied to the IDC limiter amplifier section (IC1000a, pin 3). The signals pass through the de-emphasis circuit (C1036, R1050) and splatter filter (IC1000d, pins13, 14). The signals are amplified at the buffer amplifier (IC1000c, pin 9), and are then applied to the D/A convertor IC (IC1009, pin 12) to control the modulation level.

The AF or data signals are applied to the each VCO circuit from the D/A convertor IC (IC1009, pin 11) as "MOD" signal.

# 4-2-2 VHF MODULATION CIRCUIT (MAIN AND VCO UNITS)

The modulation circuit modulates the oscillating signal (RF signal) using the microphone audio signals.

The "MOD" signal from the D/A convertor IC (IC1009, pin 11) changes the reactance of D5 (VCO unit) to modulate the oscillated signal at the VHF-VCO circuit (VCO unit; Q6). The modulated signal is amplified at the buffer amplifiers (VCO unit; Q7, Q8), and then passes through the VCO swtich (VCO unit; D12, D13). The TX LO signal passes through the low-pass filter (L90, L91, C245–C247) and attenuator (C2134, R2216–C2218), and is then applied to the TX switch (D77) via the "VHF\_YGR" line. The signal is applied to the drive/power amplifier circuits.

### 4-2-3 UHF MODULATION CIRCUIT (MAIN UNIT)

The "MOD" signal from the D/A convertor IC (IC1009, pin 11) changes the reactance of D1018 to modulate the oscillated signal at the UHF-VCO circuit (Q1039). The modulated signal is amplified at the buffer amplifiers (Q1044, Q1047), and then passes through the VCO swtich (D2059, D2060). The TX LO signal passes through the high-pass filter (L1079, C2183, C2184), and is then applied to the TX switch (D78) via the "UHF\_YGR" line. The signal is applied to the drive/power amplifier circuits.

# 4-2-4 DRIVE/POWER AMPLIFIER CIRCUITS (MAIN UNIT)

The drive amplifier circuit amplifies the VCO oscillated signal to the needed level at the power amplifier. Q27 is a power module which provides stable 50 W (UHF is 35 W) output power with a 13.8 V DC power source.

The RF signal from the TX switch (D77; VHF, D78; UHF) is amplified at the buffer amplifier (Q38), and is then applied to the pre-amplifier (Q16). The amplified signal is amplified at the pre-drive (Q21) and drive amplifier (Q25), and then applied to the power amplifier (Q27) to obtain 50 W (UHF is 35 W) of RF power.

## • VHF RF SIGNAL

The amplified signal passes throught the low-pass filter (D36, D2070), and is then applied to the SWR detector (D57, D61). The signal is applied to the TX/RX switch (D42), and passes through the low-pass filter (L76, L77, L80, C205, C209, C242, C243, C264) to suppress high harmonics components. The signal is applied to the antenna connector after being passed through the reverse power detector circuit (D70, D71).

#### • UHF RF SIGNAL

The amplified signal passes throught the TX/RX swtich (D37, D38, D41, D43–D45, D68), and is then applied to the SWR detector (D50, D58). The signal passes through the high-pass filter (L78, L81, C206, C210, C213, C265) to suppress high harmonics components. The signal is applied to the antenna connector after being passed through the reverse power detector circuit (D70, D71).

The detected voltage at the reverse detector ciruit is applied to the CPU (IC2013, pin 35) to switch from high power to middle power automatically when the SWR become worse.

### 4-2-5 APC CIRCUIT (MAIN UNIT)

The APC circuit protects the pre-drive (Q21), drive amplifier (Q25) and power amplifier (Q27) from a mismatched output load and stabilizes the output power.

#### • VHF APC CIRCUIT

The SWR detector circuit (D57, D61) detects forward signals and reflection signals at D57 and D61 respectively. The impedance is matched at 50  $\Omega$  and is increased when it is mismatched.

#### • UHF APC CIRCUIT

The SWR detector circuit (D50, D58) detects forward signals and reflection signals at D50 and D58 respectively. The impedance is matched at 50  $\Omega$  and is increased when it is mismatched.

The detected voltage is applied to the diffrential amplifier (IC2, pin 3) via the "POWER\_DET" line, and the power setting voltage from the D/A convertor (IC1, pin 12) is applied to another input (IC2, pin 1) for the reference as "PWRCON" line.

When antenna impedance is mismatched, the detected voltage exceeds the power setting voltage. The output voltage of the differential amplifier (IC2, pin 4) controls the input current of the pre-drive (Q21), drive amplifier (Q25) and power amplifier (Q27) to reduce the output power.

# **4-3 PLL CIRCUITS**

#### **4-3-1 GENERAL**

A PLL circuit provides stable oscillation of the transmit frequency and the receive local frequency. The PLL circuit compares the phase of the divided VCO frequency to the reference frequency. The PLL output frequency is controlled by a crystal oscillator and the divided ratio (N-data) of the programmable divider.

# 4-3-2 PLL CIRCUIT FOR RIGHT SIDE DISPLAY (MAIN UNIT)

The R-VCO (for right side display) composes of VHF-VCO and UHF-VCO circuits.

An oscillated signal from the UHF-VCO circuit (Q1038, D1016-D1018) passes through the buffer amplifiers (Q1044,Q1016) and VCO switch (D1023) is applied to the right side diplayed PLL IC (IC1008, pin 8)

An oscillated signal from the VHF-VCO circuit (Q1038,

D1014, D1015) passes through the buffer amplifiers (Q1043,

Q1016) and VCO switch (D1023) is applied to the PLL IC for

• FROM THE VHF-VCO CIRCUIT

right side display (IC1008, pin 8)

• FROM THE UHF-VCO CIRCUIT

And is then prescaled in the PLL IC based on the divided ratio (N-data). The reference signal is generated at the refenrece oscillator (VCO unit; X1, 12.8 MHz), and is then amplified at the buffer amplifier (Q1012). The reference signal is also applied to the PLL IC. The PLL IC detects the out-ofstep phase using the reference frequency and outputs it from pin 16. The output signal is passed through the loop filter (Q1020, Q1021, D1008) and is then applied to the right side display VCO circuit as lock voltage.

### 4-3-3 R-VCO CIRCUIT FOR RIGHT SIDE DISPLAY (MAIN UNIT)

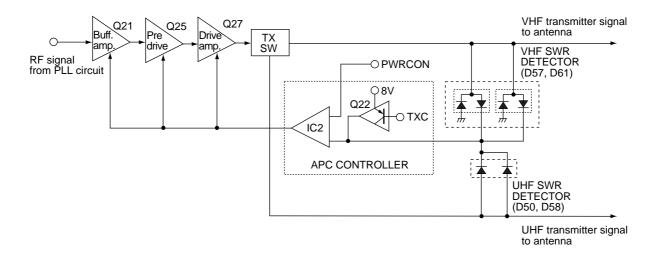
The VCO circuit for right side display contains a separated the VHF-VCO (Q1038, D1014, D1015) and UHF-VCO (Q1039, D1016-D1018) circuits.

### • VHF-VCO (RX ONLY)

The oscillated signal at the VHF-VCO circuit is amplified at the buffer amplifier (Q1043), and then passes through the attenuator (R2209-R2211, C2123) and low-pass filter (L1045, L1046, C1207, C1249, C1250, C1289, C1304). The signal is applied to the 1st mixer circuit for right side display (IC1006, pin 4) via the VCO switch (D1028) as the 1st LO signal.

A portion of the signal from the buffer amplifier (Q1043) passes through the VCO swtich (D1023), and is then amplified at the buffer amplifier (Q1016). The amplified signal is fed back to the PLL IC (IC1008, pin 8) as the comparison signal.

## APC CIRCUIT



#### • UHF-VCO

The oscillated signal at the UHF-VCO circuit is amplified at the buffer amplifiers (Q1044, Q1047), and is then applied to the VCO switch (D2059, D2060) to divide UHF TX signal and RX signal.

### (1) UHF TX SIGNAL

The TX UHF signal passes through the high-pass filter (L1079, C2183, C2184) to suppress harmonics components, and is then applied to the TX switch (D78). The signal is applied to the drive/power amplifier circuit.

#### (2) RX SIGNAL

The 400 MHz band RX signal is applied to the another VCO switches (D1038 and D1049), and then passes through the attenuator (R2206–R2208, C2122) and low-pass fiilter (L1034, L1035, C1258). The filtered signal passes through the VCO switch (Q1048, D1039), and is then applied to the 1st mixer circuit (IC1006, pin 4) as the 1st LO signal.

The 900 MHz band RX signal passes through the another VCO switches (D1027 and D1028), and is then amplified at the buffer amplifier (Q1042). The signal passes through the attenuator (L1020, C1202, C1206) and low-pass fiilter (L1021, L1036, C1252, C1259, C1260). The filtered signal passes through the VCO switch (D1026), and is then applied to the 1st mixer circuit (IC1006, pin 4) as the 1st LO signal.

A portion of the signal from the buffer amplifier (Q1044) passes through the VCO swtich (D1024), and is then amplified at the buffer amplifier (Q1016). The amplified signal is fed back to the PLL IC (IC1008, pin 8) as the comparison signal.

# 4-3-4 PLL CIRCUIT FOR LEFT SIDE DISPLAY (VCO UNIT)

An oscillated signal from the L-VCO circuit passes through the buffer amplifiers (Q7, Q1) is applied to the PLL IC for left side display (IC1, pin 8).

And is then prescaled in the PLL IC based on the divided ratio (N-data). The reference signal is generated at the refenrece oscillator (X1, 12.8 MHz). The reference signal is also applied to the PLL IC. The PLL IC detects the out-of-step phase using the reference frequency and outputs it from pin 16. The output signal is passed through the loop filter (Q2, Q3, D2) and is then applied to the left side display VCO circuit as lock voltage.

# 4-3-5 L-VCO CIRCUIT FOR LEFT SIDE DISPLAY (VCO AND MAIN UNITS)

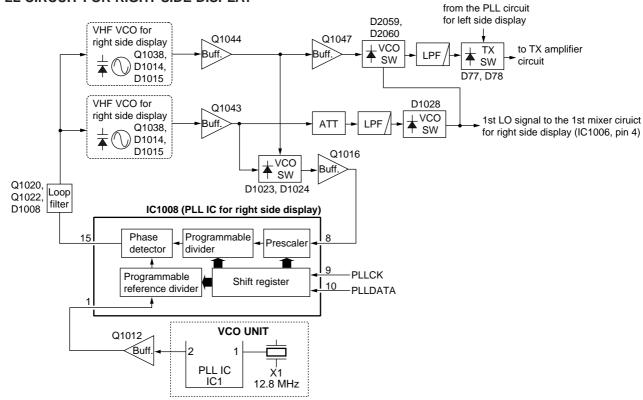
#### • VHF TX SIGNAL

The oscillated signal at the VCO circuit is amplified at the buffer amplifiers (Q7 and Q8), and then passes through the low-pass filter (MAIN unit; L90, L91, C245–C247) and attenuator (R2216–R2218, C2134) via the VCO switch (D12, D13). The signal is applied to the drive/power amlifier circuit (MAIN unit) after being passed through the TX swtich (MAIN unit; D77).

#### • RX SIGNAL

The oscillated signal at the VCO circuit is amplified at the buffer amplifiers (Q7, Q8), and is then applied to the VCO switch (D7–D9, D15). The signal is applied to the normal oscillating signal, twice oscillating signal or harf oscillating signal circuit.

## • PLL CIRCUIT FOR RIGHT SIDE DISPLAY



## (1) NORMAL OSCILLATING SIGNAL CIRCUIT

The signal from the VCO swtich (D7) passes through the attenuator (R33, R37, R38, C41) and low-pass filter (L5, L9, C45, C47, C53, C63, C64), and then applied to the VCO swtich (D10) which is controlled by the "L\_VR5" signal.

#### (2) TWICE OSCILLATING SIGNAL CIRCUIT

The signal from the VCO switch (D9) passes through the high-pass (L6, C46, C48, C49), low-pass (L8, C52, C54, C57) and high-pass (L11, C58, C65) filters to obtain twice oscillating signal. The signals is applied to the VCO switch (D11) which is controlled by the "L UR5" signal.

## (3) HARF OSCILLATING SIGNAL CIRCUIT

The signal from the VCO switch (D15) is applied to the prescaler circuit (IC3, pin 2) to divide harf oscillating signal. The divided signal is applied to the VCO switch (D16).

The reglator circuit provides the pre-scaler's power supply. The circuit is controlled by the "L\_LO\_SW" signal.

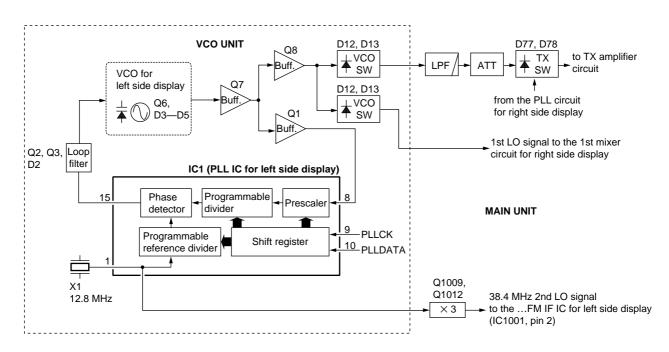
The signal from the each VCO switch is applied to the 1st mixer circuit for right side display (MAIN unit; IC1005, pin 4) as the 1st LO signal.

A portion of the signal from the buffer amplifier (Q7) is amplified at the buffer amplifier (Q1), and is then fed back to the PLL IC (IC1, pin 8) as the comparison signal.

# 4-4 POWER SUPPLY CIRCUITS 4-4-1 CONTROL UNIT VOLTAGE LINE

Line	Description	
HV	The 13.8V external DC power from the power connector (MAIN unit; J2000). The voltage is supplied to the LCD back light circuit (DS1-DS12), etc.	
8V	Common 8 V converted from the HV line at the +8 regulator circuit (Q1, Q3, D1). The output voltage is applied to the microphone amplifier regulator circuit (Q16), key back light circuit (DS13–DS18).	
CPU5	Common 5 V converted from the HV line by the +5 regulator circuit (CONTROL unit; IC3). The output voltage is applied to the buffer amplifier (CONTROL unit; Q2) and reset circuit (CONTROL unit; IC2), control unit CPU (IC4) and PTT detector (Q5, D3, D4).	

#### • PLL CIRCUIT FOR LEFT SIDE DISPLAY



## 4-4-2 MAIN UNIT VOLTAGE LINE

Line	Description
HV	The 13.8V external DC power from the power connector.
VCC	The same voltage as the HV line which is controlled by the VCC regulator circuit (MAIN unit; Q2001). When the [POWER] switch is pushed, the CPU outputs control signal to the power switch controller (Q2003) to turn the circuit ON.
5V	Common 5 V for the CPU converted from the HV line by the 5V regulator circuit (IC2002). The voltage line is also applied to the CPU when IC-2720H is power OFF.
8V	Common 8 V converted from the VCC line at the +8 regulator circuit (IC2003).
5VS	Common 5 V produced from the 5 V line by the +5 regulator circuit (Q2002, D2048). The output signal is applied to the PTT detector (Q2005), mic amplifier (IC2014, Q2028), etc.VHF transmit.
VT8	8 V produced from the 8V line at the VT8 regulator circuit (Q9, Q11).
UT8	UHF transmit 8V produced from the 8V line at the UT8 regulator circuit (Q10, Q12).
VUT8	VHF and UHF transmit 8 V produced from the 8 V line at the VUT8 regulator circuit (Q13, D1). The output voltage is applied to the buffer amplifier (Q38), pre-amplifier (Q16) and pre-driver (Q21).
L_AM5	Receive 5 V produced from the 5VS line at the L_R5 regulator circuit (Q1000). The output voltage is applied to the AM detector for left side display (Q1014, Q1017).
R_AM5	Receive 5 V produced from the 5VS line at the R_R5 regulator circuit (Q1002). The output voltage is applied to the AM detector for right side display (Q1022, Q1025).
L_R5	Receive 5 V produced from the 5VS line at the L_AM5 regulator circuit (Q1006). The output voltage is applied to the IF amplifier (Q1040) and FM IF IC (IC1001) for left side display.
R_R5	Receive 5 V produced from the 5VS line at the R_AM5 regulator circuit (Q1005). The output voltage is applied to the IF amplifier (Q1041) and FM IF IC (IC1004) for right side display.
L140_R5	Receive 5 V produced from the 5VS line at the L_R5 regulator circuit (Q1). The output voltage is applied to the RF amplifier (Q29) for left side display's 144 MHz bandpass filter.
R140_R5	Receive 5 V produced from the 5VS line at the R_R5 regulator circuit (Q2). The output voltage is applied to the RF amplifier (Q30) for right side display's 144 MHz bandpass filter.

## **MAIN UNIT VOLTAGE LINE-Continued**

Line	Description	
L220_R5	Receive 5 V produced from the 5VS line at the R_AM5 regulator circuit (Q3). The output voltage is applied to the RF amplifier (Q31) for left side display's 220 MHz bandpass filter.	
L300_R5	Receive 5 V produced from the 5VS line at the L_AM5 regulator circuit (Q4). The output voltage is applied to the RF amplifier (Q32) for right side display's 300 MHz bandpass filter.	
R400_R5	Receive 5 V produced from the 5VS line at the R_R5 regulator circuit (Q5). The output voltage is applied to the RF amplifier (Q19) for right side display's 430 MHz bandpass filter.	
L400_R5	Receive 5 V produced from the 5VS line at the R_AM5 regulator circuit (Q6). The output voltage is applied to the RF amplifier (Q20) for left side display's 430 MHz bandpass filter.	
R800_R5	Receive 5 V produced from the 5VS line at the L_AM5 regulator circuit (Q8). The output voltage is applied to the RF amplifier (Q18, Q35) for right side display's 910 MHz bandpass filter.	
L_VCO8	Common 8 V produced from the 8 V line by the +8 regulator circuit (Q1023). The output voltage is applied to the VCO circuit (RF unit; Q6, D3–D5) and buffer amplifier (RF unit; Q8).	
CPU5	Common 5 V converted from the HV line by the +5 regulator circuit (CONTROL unit; IC3). The output voltage is applied to the buffer amplifier (CONTROL unit; Q2) and reset circuit (CONTROL unit; IC2).	

# 4-4-3 VCO UNIT VOLTAGE LINE

Line	Description
8V	Common 8 V converted from the VCC line at the +8 regulator circuit (MAIN unit; IC2003). The output voltage is applied to the filter switch (IC2), loop filter (Q2, Q3, D2) and buffer amplifier (Q8).
5VS	Common 5 V produced from the 5 V line by the +5 regulator circuit (MAIN unit; Q2002, D2048). The output voltage is applied to the PTT IC (IC1) and regulator circuit (Q9).
L_VCO8	Common 8 V produced from the 8 V line by the +8 regulator circuit (Q1023). The output voltage is applied to the VCO circuit (RF unit; Q6, D3–D5) and buffer amplifier (RF unit; Q8).

# **4-5 PORT ALLOCATIONS**

4-5-1 CPU (MAIN UNIT; IC2013)

Pin	Port	
number	name	Description
10	UMMUTE	Outputs microphone mute signal for right side display. Low: While microphone is muting.
11	CK_SHIFT1	Output clock shift signal.
16	TX_MUTE	Outputs transmit mute control signal. High:While transmit is muting.
17	MIC_PTT	Input port for microphone's PTT detecting signal.
18	SUB_SEL	Outputs sub band select signal.
20	UTX_CTRL	Outputs RF transmit power supply circuit control signal for left side display.  High:While transmitting 400–479  MHz.
21	VTX_CTRL	Outputs RF transmit power supply circuit control signal for right side display.  High:While transmitting 136–174  MHz.
22	DTCS_SEL	Outputs DTCS filter select signal.
24	ES_DATA	I/O port the data signal from/to the EEPROM (IC2000, pin 5).
25	ES_CK	Outputs clock signal to the EEPROM (IC2000, pin 6).
26	P_PTT	Input port for PTT detect signal in packet mode.
27	P_MOD_MUTE	Outputs modulation mute signal on packet mode  Low: While packet mod. is muting.
28	98_DATA	Input port for data signal from HM-98.
29	MIC_U/D	Input port for up/down signal from the microphone.
30	CM_MUTE	Outputs the microphone mute signal to the CONTROL unit.  Low: While the microphone is muting.
31	MIC_SEL	Input port for the connecting microphone detect signal for HM-98.  Low: While HM-98 is connecting.
32	R_RSSI	Input port for the RSSI signal from the FM IF IC (IC1004, pin 12) to detect receiving signal strength for right side display.
33	L_RSSI	Input port for the RSSI signal from the FM IF IC (IC1001, pin 12)to detect receiving signal strength for left side display.
34	TEMP	Input port for chassis temperature detecting signal.
35	REV_DET	Input port for the reverse power detecting signal.
38	R_SQL	Input port for the squelch level for right side display.
39	R_DTCS_IN	Input port for the DTCS or CTCSS signal for right side display.
40	L_SQL	Input port for the squelch level for the left side display.
41	L_DTCS_IN	Input port for the DTCS or CTCSS signal for left side display.
44	DTMF	Outputs DTMF, E-tone, beep signals.
45	DTCS P_SQL	Outputs DTCS and CTCSS signals
41	r_oul	Outputs the packet squelch signal.

D:	D1	
Pin number	Port name	Description
48	FAN_CTRL	Outputs cooling fan control signal.
49	CLONE_OUT	Outputs the cloing data signal.
50	CLONE_IN	Input port for the cloing data signal.
51	D/A_DATA	Outputs serial data to the D/A convert-
52	D/A_CK	er IC (IC1, pins 15–17).
53	D/A_STB	
54	MM_MUTE	Outputs microphone mute control signal for MAIN unit.  Low: While the microphone is muting.
55	L_AF_MUTE	Outputs AF mute control signal for left side display. High:While AF audio is muting.
56	R_AF_MUTE	Outputs AF mute control signal for right side display.  High: While AF audio is muting.
57	L_DET_MUTE	Outputs detector mute signal for left side display.
58	R_DET_MUTE	Outputs detector mute signal for right side display.
60 61	AF_VOL_CK AF_VOL_DATA	
62	L_R5CTRL	Outputs the RX RF power supply control signal for left side display.
63	R_UVCO_SEL	Outputs the VCO select signal for right side display.  High: While receiving 320–999.9 MHz on right side display.
64	L_UNLOCK	Input port for the PLL unlock signal for left side display (VCO unit; IC1, pin 7).  Low: The PLL Lock voltage is unlock for left side display.
65	1200/9600SEL	Outputs 1200or 9600 bps packet baud
66	L_RX400	Outputs the 400 MHz receiver circuit select signal for left side display.  High: While receiving 310–550 MHz on left side display.
67	L_RX300	Outputs the 300 MHz receiver circuit select signal for left side display.  High:While receiving 205–309.995  MHz on left side display.
68	L_AM	Outputs receive mode select signal for left side display.  Low: AM mode is selected.
69	R_AM	Outputs receive mode select signal for right side display.  Low: AM mode is selected.
72	R_RX220	Outputs the 220 MHz receiver circuit select signal for left side display.  Low: While receiving 174–254.995  MHz on left side display.
73	L_RX140	Outputs the 144 MHz receiver circuit select signal for left side display.  Low: While receiving 118–173.995  MHz on left side display.
74	R_RX800	Outputs the 800 MHz receiver circuit select signal for right side display.  Low: While receiving 810–999.990 MHz on right side display.

# **CPU-Continued**

Pin number	Port name	Description
75	L_400SHIFT	Outputs shift signal to the 430 MHz bandpass filter for left side display.  High:While receiving 310–450 MHz on left side display.
76	R_RX400	Outputs the 430 MHz receiver circuit select signal for right side display.  Low: While receiving 360–549.990 MHz on right side display.
77	R_RX140	Outputs the 144 MHz receiver circuit select signal for right side display.  Low: While receiving 118–174 MHz on right side display.
78	LR_R5CTRL	Outputs the RX RF power supply control signal for right side display.  High:While receiving on left side display.
79	L_VCO_SHIFT	Outputs the VCO select signal for left side display.  High:While transmitting 400–479  MHz on left side display.
80	R400_SHIFT	Outputs 430 MHz bandpass filter shift signal for right side display.  High: While receiving 360–450 MHz on right side display.
81	R_VVCO_SEL	Output VCO select signal for right side display.  High:While receiving 118–174 MHz on right side display.
82	L_PLLSW	Outputs PLL loop select signal for right side display.
83	R_PLLSW	Outputs PLL loop select signal for left side display.
84	R_UNLOCK	Input port for the PLL unlock signal for right side display (IC1008, pin 7).  Low: The PLL lock voltage is unlocked for right side display.
85	P_L/R_SEL	Outputs packet band select signal.
86–89	MATRIX_IN1- MATRIX_IN4	Input ports for Initial matrix.
90 91	PLLDATA PLLCK	Outputs serial signal to the PLL IC (IC1008, pins 9, 10 and VCO unit; IC1, pins 9, 10).
93 94 95 96	MATRIX_OUT1 MATRIX_OUT2 MATRIX_OUT3 MATRIX_OUT4	Outputs initial matrix signal.

# 4-5-2 D/A CONVERTER IC (CONTROL UNIT; IC4)

Pin number	Port name	Description
2, 3	R_BPF3 R_BPF4	Output tracking signals to the band- pass filter for right side display.
4–7	L_BPF1, L_BPF2, L_BPF3, L_BPF4	Output tracking signals to the band- pass filter for left side display.
8	L-ATT	Outputs the attenuator circuit control signal for left side display.
9	R-ATT	Outputs the attenuator circuit control signal for right side display.
12	PWRCON	Outputs control signal for RF output power.
18, 19		Output tracking signals to the band- pass filter for right side display.

# SECTION 5 PARTS LIST

#### [CONTROL UNIT]

#### ORDER NO. RFF **DESCRIPTION** NO. IC1 1110002750 S.IC TA75S01F (TE85R) 1110005780 S.IC S-80945CLMC-G7F-T2 IC2 1180000420 S.IC IC3 TA78L05F (TE12R) IC4 1140010230 S.IC HD6473847RH (FX-2493D) IC5 1130007370 S.IC TA75S558F (TE85L) Q1 1530002690 S.TRANSISTOR 2SC4116-GR (TE85R) Q2 1590001650 S.TRANSISTOR XP4601 (TX) Q3 1510000770 S.TRANSISTOR 2SA1586-GR (TE85R) Q5 1530002690 S.TRANSISTOR 2SC4116-GR (TE85R) Q6 1530002690 S.TRANSISTOR 2SC4116-GR (TE85R) Q7 1530002690 S.TRANSISTOR 2SC4116-GR (TE85R) Q8 1530002690 S.TRANSISTOR 2SC4116-GR (TE85R) Q9 1530002690 S.TRANSISTOR 2SC4116-GR (TE85R) Q10 1530002690 S.TRANSISTOR 2SC4116-GR (TE85R) Q11 1530002690 S.TRANSISTOR 2SC4116-GR (TE85R) Q12 1530002690 S.TRANSISTOR 2SC4116-GR (TE85R) Q13 1530002690 S.TRANSISTOR 2SC4116-GR (TE85R) Q15 1530002690 S.TRANSISTOR 2SC4116-GR (TE85R) 1530002690 S.TRANSISTOR 2SC4116-GR (TE85R) D1 1730002280 S.ZENER MA8091-M (TX) D2 1730002340 S.ZENER MA8047-M (TX) D3 1750000550 1SS355 TE-17 D4 1790001000 S.ZENER MA8062-L (TX) 6060000610 S.CERAMIC X1 EFOS4914E3 R1 7210002920 VARIABLE EVU-F2AF20B55 (560K) R2 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) EVU-F2AF20B55 (560K) R3 7210002920 VARIABLE 7030003440 | S.RESISTOR R4 ERJ3GEYJ 102 V (1 kΩ) R5 7210002920 VARIABLE EVU-F2AF20B55 (560K) R6 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) EVU-F2AF20B55 (560K) 7210002920 VARIABLE R7 7030003440 S.RESISTOR R8 ERJ3GEYJ 102 V (1 kΩ) R9 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R10 R11 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R12 ERJ3GEYJ 473 V (47 kΩ) 7030003640 S.RESISTOR R13 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R14 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R15 7030005521 S.RESISTOR ERA3YKD 334V (330 kΩ) R16 7030005501 S.RESISTOR ERA3YKD 124V (120 kΩ) R17 7030005691 S.RESISTOR ERA3YED 123V R18 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R19 7030000020 S.RESISTOR MCR10EZHJ 1 Ω (010) R20 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R21 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R22 7030003760 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R23 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R24 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R25 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R26 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R27 7030003760 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R28 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R29 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R30 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R31 7030003480 S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) R32 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R35 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R39 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R41 7030003800 S.RESISTOR ERJ3GEYJ 105 V (1 M $\Omega$ ) R42 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R43 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R44 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R45 7030003390 S.RESISTOR ERJ3GEYJ 391 V (390 Ω) R46 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R47 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R48 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 391 V (390 Ω) R49 7030003390 S.RESISTOR R50 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)

#### [CONTROL UNIT]

REF NO.	ORDER NO.		DESCRIPTION
R51	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R52	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R53	7030003390	S.RESISTOR	ERJ3GEYJ 391 V (390 Ω)
R54	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R55	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R56	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R57	7030003440	S.RESISTOR	ERJ3GEYJ 391 V (390 Ω)
R58	7030003390	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R59	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R60	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
		S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)
R61 R62	7030003580		, ,
	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R63	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R64	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R65	7030003390	S.RESISTOR	ERJ3GEYJ 391 V (390 Ω)
R66	7030003390	S.RESISTOR	ERJ3GEYJ 391 V (390 Ω)
R67	7030003380	S.RESISTOR	ERJ3GEYJ 331 V (330 Ω)
R71	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R72	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R73	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R74	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R75	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R76	7030003620	S.RESISTOR	ERJ3GEYJ 333 V (33 kΩ)
R77	7030003660	S.RESISTOR	ERJ3GEYJ 683 V (68 kΩ)
R78	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R79	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R80	7030003530	S.RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ)
R81	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
R82	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
R83	7030003580	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)
R85	7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)
R88	7030003500	S.RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ)
		0.1120.0101	
C1	4030006880	S.CERAMIC	C1608 JB 1H 472K-T
C2	4030006880	S.CERAMIC	C1608 JB 1H 472K-T
C3	4030006880	S.CERAMIC	C1608 JB 1H 472K-T
C4	4030006880	S.CERAMIC	C1608 JB 1H 472K-T
C5	4030007130	S.CERAMIC	C1608 CH 1H 101J-T
C6	4030007090	S.CERAMIC	C1608 CH 1H 470J-T
C7	4030007130	S.CERAMIC	C1608 CH 1H 101J-T
C8	4030007130	S.CERAMIC	C1608 CH 1H 101J-T
C10	4030007130	S.CERAMIC	C1608 CH 1H 101J-T
C12	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
C13	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C14	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C15	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C16	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C18	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C19	4030006860		C1608 JB 1H 102K-T
C20	4510004640		ECEV1CA470SP
C22	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
			C2012 JB 1A 105M-T
C23 C24	4030012600 4510004630	S.CERAMIC	ECEV1CA100SR
			C1608 JB 1H 102K-T
C25	4030006860	S.CERAMIC	
C26	4030006900	S.CERAMIC	C1608 JB 1H 103K-T
C27	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C28	4510004630		ECEV1CA100SR
C29	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C30	4030007090	S.CERAMIC	C1608 CH 1H 470J-T
C31	4030007090	S.CERAMIC	C1608 CH 1H 470J-T
C32	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C33	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C34	4030006900	S.CERAMIC	C1608 JB 1H 103K-T
C35	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
C36	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
C37	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
C39	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
C40	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
C41	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
C42	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C43	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C44	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C45	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
	4030008910	S.CERAMIC	C1608 JB 1H 393K-1
C46 C47	4030008910 4030008910	S.CERAMIC S.CERAMIC	C1608 JB 1H 393K-T C1608 JB 1H 393K-T

# [CONTROL UNIT]

ORDER NO.		DESCRIPTION	
4550000530			
4550000530 4550005980 4550003220 4550006250	S.TANTALUM	TESVA 1V 104M1-8L TEMSVA 1A 475M-8L TEMSVA 1E 105M-8L TEMSVA 1A 106M-8L	
6510023110 6510023170	CONNECTOR CONNECTOR	3008L-8P8C 3008L-6P6C	
5040002370 5040002370 5040002060 5040002060 5040002370 5040002370 5040002370 5040002060 5040002060 5040002060 5040002060 5010000120 5010000120 5010000120 5010000120 5010000120 5010000120	S.LED	SML-010MT T86 SML-010MT T86 SML-010MT T86 SML-020MLT T86 SML-020MLT T86 SML-020MLT T86 SML-020MLT T86 SML-010MT T86 SML-010MT T86 SML-010MT T86 SML-010MT T86 SML-020MLT T86 SML-020MLT T86 SML-020MLT T86 SML-020MLT T86 LN1371G-(TR)	
2250000460 2250000460	ENCODER ENCODER	EVQ-VENF0224B EVQ-VENF0224B	
6910012350 6910012350 6910012350 6910012350 6910012350 6910012350 6910012350 6910012350 6910012350 6910012350 6910012350 6910012350 6910012350	S.BEAD S.BEAD S.BEAD S.BEAD S.BEAD S.BEAD S.BEAD S.BEAD S.BEAD S.BEAD S.BEAD S.BEAD S.BEAD S.BEAD S.BEAD	MMZ1608Y 102BT SRCN-2493-SP-N-W B 5765C MMZ1608Y 102BT	
	4550003220 4550006250 6510023110 6510023170 5040002370 5040002370 5040002060 5040002060 5040002370 5040002370 5040002370 5040002370 5040002370 5040002370 5040002060 5040002060 5010000120 5010000120 5010000120 5010000120 5010000120 5010000120 5010000120 5010000120 6910012350	4550003220         S.TANTALUM           4550006250         S.TANTALUM           6510023170         CONNECTOR           5040002370         S.LED           5040002370         S.LED           5040002370         S.LED           5040002370         S.LED           5040002060         S.LED           5040002370         S.LED           5010002300         S.LED           5010000120         S.BEAD           6910012350         S.BEAD <td>4550003220         S.TANTALUM         TEMSVA 1E 105M-8L           4550006250         S.TANTALUM         TEMSVA 1A 106M-8L           6510023110         CONNECTOR         3008L-8P8C           6510023170         CONNECTOR         3008L-6P6C           5040002370         S.LED         SML-010MT T86           5040002370         S.LED         SML-010MT T86           5040002370         S.LED         SML-020MLT T86           5040002060         S.LED         SML-020MLT T86           5040002370         S.LED         SML-020MLT T86           5040002370         S.LED         SML-010MT T86           5040002370         S.LED         SML-010MT T86           5040002370         S.LED         SML-010MT T86           5040002370         S.LED         SML-020MLT T86           5040002370         S.LED         SML-020MLT T86           5040002060         S.LED         SML-020MLT T86           5040002060         S.LED         SML-020MLT T86           5040002060         S.LED         SML-020MLT T86           5040002060         S.LED         LN1371G-(TR)           5010000120         S.LED         LN1371G-(TR)           5010000120         S.LED         LN1371G-(TR)</td>	4550003220         S.TANTALUM         TEMSVA 1E 105M-8L           4550006250         S.TANTALUM         TEMSVA 1A 106M-8L           6510023110         CONNECTOR         3008L-8P8C           6510023170         CONNECTOR         3008L-6P6C           5040002370         S.LED         SML-010MT T86           5040002370         S.LED         SML-010MT T86           5040002370         S.LED         SML-020MLT T86           5040002060         S.LED         SML-020MLT T86           5040002370         S.LED         SML-020MLT T86           5040002370         S.LED         SML-010MT T86           5040002370         S.LED         SML-010MT T86           5040002370         S.LED         SML-010MT T86           5040002370         S.LED         SML-020MLT T86           5040002370         S.LED         SML-020MLT T86           5040002060         S.LED         SML-020MLT T86           5040002060         S.LED         SML-020MLT T86           5040002060         S.LED         SML-020MLT T86           5040002060         S.LED         LN1371G-(TR)           5010000120         S.LED         LN1371G-(TR)           5010000120         S.LED         LN1371G-(TR)

# [MAIN UNIT]

[MAIN	AIN UNIT]			
REF NO.	ORDER NO.		DESCRIPTION	
IC1	1110004310	S.IC	M62352GP 75EC	
IC2 IC1000	1110002750 1110005340	S.IC S.IC	TA75S01F (TE85R) NJM12902V-TE1	
IC1000	1110003340	S.IC	TA31136FN (EL)	
IC1003	1130004200	S.IC	TC4S66F (TE85R)	
IC1004	1110003200	S.IC	TA31136FN (EL)	
IC1005	1110005620	S.IC	GN02039B-0L	
IC1006	1110005620	S.IC	GN02039B-0L	
IC1008	1140005990	S.IC	MB15A02PFV1-G-BND-ER	
IC1009	1190000350	S.IC	M62363FP-650C	
IC2000	1140008650	S.IC	HN58X2464TI	
IC2001	1110005990	S.IC	S-80945CNMC-G9F-T2	
IC2002 IC2003	1180001070 1180001250	S.IC S.IC	TA7805F (TE16L) TA7808F (TE16L)	
IC2003	11100001230	S.IC	TA75S01F (TE16E)	
IC2007	1130008090	S.IC	BU4066BCFV-E1	
IC2008	1130008090	S.IC	BU4066BCFV-E1	
IC2009	1130003760	S.IC	TC4S81F (TE85R)	
IC2010	1130008090	S.IC	BU4066BCFV-E1	
IC2011	1110004490	S.IC	M62429FP 700C	
IC2012	1110002540	IC	LA4445	
IC2013	1140010840	S.IC	HD64F2144AFA20 (FX-2493 USA) [USA]	
IC2014	1140010830	S.IC	HD64F2144AFA20 (FX-2493 EXP) [OTHER] TA75S558F (TE85L)	
IC2014	1130007370	S.IC	TC4W53FU (TE12L)	
IC2016	1130006220	S.IC	TC4W53FU (TE12L)	
Q1	1590000860	S.TRANSISTOR	DTA114YUA T106	
Q2	1590000860		DTA114YUA T106	
Q3	1590000860		DTA114YUA T106	
Q4	1590000860		DTA114YUA T106	
Q5	1590000860		DTA114YUA T106	
Q6	1590000860		DTA114YUA T106	
Q8 Q9	1590000860 1590000430		DTA114YUA T106 DTC144EUA T106	
Q10	1590000430		DTC144EUA T106	
Q11	1510000670		2SA1588-GR (TE85R)	
Q12	1510000670		2SA1588-GR (TE85R)	
Q13	1520000460		2SB1132 T100 R	
Q14	1530002850		2SC4116-BL (TE85R)	
Q15	1530002850		2SC4116-BL (TE85R)	
Q16 Q18	1560001090 1530003780	S.FET S.TRANSISTOR	2SK2854 2SC5624VH-TI	
Q19	1580000740	S.FET	3SK320 (TE85L)	
Q20	1580000740	S.FET	3SK320 (TE85L)	
Q21	1560001160	S.FET	2SK3475 (TE12L)	
Q22	1590000720		DTA144EUA T106	
Q23	1530002850		2SC4116-BL (TE85R)	
Q24	1580000710	S.FET	3SK274 (TE85L)	
Q25 Q26	1560001060 1530002850	S.FET	2SK3075 (TE12L) 2SC4116-BL (TE85R)	
Q20 Q27	1560002830	FET	RD70HVF	
Q28	15900001190		DTC144EUA T106	
Q29	1580000660	S.FET	3SK272-(TX)	
Q30	1580000660	S.FET	3SK272-(TX)	
Q31	1530003780	S.TRANSISTOR		
Q32	1530003780	S.TRANSISTOR		
Q33	1580000660	S.FET	3SK272-(TX)	
Q34 Q35	1530002850 1530003260	S.TRANSISTOR S.TRANSISTOR	2SC4116-BL (TE85R) 2SC5006-T1	
Q38	1530003200		2SC4226-T1 R25	
Q1000	1590000860		DTA114YUA T106	
Q1001	1590000430		DTC144EUA T106	
Q1002	1590000860		DTA114YUA T106	
Q1003	1590001650	S.TRANSISTOR		
Q1004 Q1005	1590001650 1590000440	S.TRANSISTOR	DTA143ZUA T106	
Q1005	1590000440		DTA143ZUA T106	
Q1007	1590001190		XP6501-(TX) .AB	
Q1008	1590001190		XP6501-(TX) .AB	
Q1009	1530002380		2SC4215-Y (TE85R)	
Q1010	1590001450	S.FET	2SJ144-GR (TE85R)	
Q1011 Q1012	1590001450 1530002850	S.FET S TRANSISTOR	2SJ144-GR (TE85R) 2SC4116-BL (TE85R)	
Q1012	1590002030		DTA144EUA T106	
Q1014	1590001190		XP6501-(TX) .AB	
Q1016	1530002560	S.TRANSISTOR		
Q1017	1590001190		XP6501-(TX) .AB	
Q1020	1510000770	S. I KANSISTOR	2SA1586-GR (TE85R)	

#### ORDER REF **DESCRIPTION** NO. NO. Q1021 1530002690 S.TRANSISTOR 2SC4116-GR (TE85R) Q1022 1590001190 S.TRANSISTOR XP6501-(TX) .AB Q1023 1530002850 S.TRANSISTOR 2SC4116-BL (TE85R) Q1025 1590001190 S.TRANSISTOR XP6501-(TX) .AB Q1026 1590001650 S.TRANSISTOR XP4601 (TX) Q1027 1590001650 S.TRANSISTOR XP4601 (TX) Q1029 1590000430 S.TRANSISTOR DTC144EUA T106 Q1038 1530003580 S.TRANSISTOR 2SC5231C8-TL Q1039 1530003580 S.TRANSISTOR 2SC5231C8-TL Q1040 1530003220 S.TRANSISTOR 2SC4406-4-TL Q1041 1530003220 S.TRANSISTOR 2SC4406-4-TL Q1042 1530002920 S.TRANSISTOR 2SC4226-T1 R25 Q1043 1530003580 S.TRANSISTOR 2SC5231C8-TL Q1044 1530003580 S.TRANSISTOR 2SC5231C8-TL Q1047 1530003580 S.TRANSISTOR 2SC5231C8-TL Q1048 1590000430 S.TRANSISTOR DTC144EUA T106 Q1049 1590000430 S.TRANSISTOR DTC144EUA T106 Q2000 1520000460 S.TRANSISTOR 2SB1132 T100 R Q2002 1510000670 S.TRANSISTOR 2SA1588-GR (TE85R) Q2003 1590000430 S.TRANSISTOR DTC144EUA T106 Q2005 1530002850 S.TRANSISTOR 2SC4116-BL (TE85R) Q2006 1590000430 S.TRANSISTOR DTC144EUA T106 Q2007 1590000430 S.TRANSISTOR DTC144EUA T106 Q2008 1530003090 S.TRANSISTOR 2SC4213-B (TE85R) Q2009 1590000430 S.TRANSISTOR DTC144EUA T106 Q2010 1530003090 S.TRANSISTOR 2SC4213-B (TE85R) Q2011 1530003090 S.TRANSISTOR 2SC4213-B (TE85R) Q2014 1590001650 S.TRANSISTOR XP4601 (TX) Q2016 1590001780 S.TRANSISTOR XP4213 (TX) Q2017 1590000660 S.TRANSISTOR DTC144TU T106 Q2018 1590000430 S.TRANSISTOR DTC144EUA T106 Q2019 1590000720 S.TRANSISTOR DTA144EUA T106 Q2022 1590000430 S.TRANSISTOR DTC144EUA T106 Q2023 1590000430 S.TRANSISTOR DTC144EUA T106 Ω2024 1590001650 S.TRANSISTOR XP4601 (TX) S TRANSISTOR XP4601 (TX) Q2025 1590001650 Q2028 1530002690 S.TRANSISTOR 2SC4116-GR (TE85R) Q2029 1590000660 S TRANSISTOR DTC144TU T106 [USA] only Q2030 1590000720 S.TRANSISTOR DTA144EUA T106 [USA] only 1160000140 S.DIODE DAP222 TL D1 MA2S728-(TX) D2 1790001240 | S.DIODE D3 1790001240 S.DIODE MA2S728-(TX) D5 1790001240 S.DIODE MA2S728-(TX) 1790001260 S DIODE MA2S077-(TX) D8 D9 1790001260 S.DIODE MA2S077-(TX) D11 1790001260 S.DIODE MA2S077-(TX) 2מא 1750000720 S VARICAP HVC375BTRF 1750000720 S VARICAP HVC375BTRF ID13 D16 1750000720 S VARICAP HVC375BTRF HVC375BTRF 1750000720 S.VARICAP D17 1750000720 S.VARICAP D22 HVC375BTRF 1750000720 S.VARICAP HVC375BTRF lD23 1SV172 (TE85R) 1720000240 S DIODE D24 D25 1720000240 S DIODE 1SV172 (TE85R) 1790001260 S.DIODE MA2S077-(TX) D28 MA2S077-(TX) 1790001260 S.DIODE D29 MA2S077-(TX) 1790001260 S.DIODE D30 D31 1790001260 S DIODE MA2S077-(TX) 1750000710 S.VARICAP HVC350BTRF D32 1750000710 S VARICAP HVC350BTRE D33 1750000710 S.VARICAP HVC350BTRF D34 D35 1750000720 S VARICAP HVC375BTRF 1750000510 S.DIODE UM9401F D36 1750000510 S.DIODE UM9401F D37 1750000510 S.DIODE UM9401F D38 1750000710 S.VARICAP HVC350BTRF D39 1750000710 S.VARICAP HVC350BTRF D40 1750000510 S.DIODE D41 UM9401F 1750000510 S.DIODE UM9401F D42 1750000510 S.DIODE UM9401F D43 1750000510 S.DIODE UM9401F D44 1750000510 S.DIODE D45 UM9401F D46 1750000810 S.DIODE UM9957F/TR 1750000710 S.VARICAP HVC350BTRF D47 1750000710 S.VARICAP HVC350BTRF D48 1750000720 S.VARICAP D49 HVC375BTRF D50 1790001240 S.DIODE MA2S728-(TX) 1750000710 S.VARICAP D51 HVC350BTRF 1790001250 S.DIODE MA2S111-(TX) D52 1750000710 | S.VARICAP HVC350BTRF D53

#### **IMAIN UNIT1**

ORDER NO. 750000710 750000510 750000510 790000980 790001240 720000240 790001260 790001250 750000550 790001260 750000510 730002340 790001260 750000720 750000720 750001260 79001240 79001240 79001240 790001240 750000370 750000830 750000830 750000720 750000830 750000720 750000730 750000830 750000730 750000730	S.VARICAP S.DIODE S.VARICAP S.VARICAP S.DIODE S.VARICAP S.VARICAP S.VARICAP S.VARICAP S.VARICAP	HVC350BTRF UM9401F MA742 (TX) MA2S728-(TX) 1SV172 (TE85R) 1SV172 (TE85R) 1SV172 (TE85R) MA742 (TX) MA2S077-(TX) MA2S077-(TX) MA2S077-(TX) MA2S077-(TX) UM9401F MA8047-M (TX) HVC375BTRF HVC375BTRF HVC375BTRF HVC375BTRF HVC362TRF HVC375BTRF	
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790001260 750000510 730002340 790000980 750000720 790001620 790001240 790001240 750000370 750000830 750000720 750000720 720000730 750000370 750000370	S.DIODE S.DIODE S.ZENER S.DIODE S.VARICAP S.VARICAP S.DIODE S.DIODE S.DIODE S.DIODE S.DIODE S.DIODE S.VARICAP S.VARICAP S.VARICAP S.VARICAP S.VARICAP S.VARICAP	MA2S077-(TX) UM9401F MA8047-M (TX) MA742 (TX) HVC375BTRF 1SV308 (TPL3) 1SV308 (TPL3) MA2S728-(TX) MA2S728-(TX) MA2S728-(TX) DA221 TL HVC362TRF HVC362TRF HVC375BTRF	
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750000720 720000790 750000370 750000370	S.VARICAP S.VARICAP		
720000790 750000370 750000370	S.VARICAP	HVC375BTRF	
750000370		HVC321B1TRF	
I	S.DIODE	DA221 TL	
	S.DIODE	DA221 TL	
790001260   790001260	S.DIODE S.DIODE	MA2S077-(TX) MA2S077-(TX)	
790001260	S.DIODE	MA2S077-(TX)	
790001260	S.DIODE	MA2S077-(TX)	
790001260	S.DIODE	MA2S077-(TX)	
790001260			
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790001250	S.DIODE	MA2S111-(TX)	
790001250	S.DIODE	MA2S111-(TX)	[USA] only
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I		` '	[USA] only
790001260	S.DIODE	, ,	
790001250	S.DIODE	MA2S111-(TX)	
790000700	DIODE	DSA3A1	
I			
790000980		MA742 (TX)	
730000520	ZENER	RD20E B2	
790001250	S.DIODE	MA2S111-(TX)	[SEA], [EXP] only
I		, ,	[KOR], [SEA] only
I			[KOR] only [KOR], [SEA] only
790001250	S.DIODE	MA2S111-(TX)	[KOR], [SEA] only
790001250	S.DIODE	MA2S111-(TX)	[KOR], [SEA] only
790001250	S.DIODE	MA2S111-(TX)	[KOR] only
		, ,	[KOR], [SEA] only
			[KOR], [EXP] only [KOR], [SEA]
790001250	S.DIODE	MA2S111-(TX)	[KOR] only
790001250	S.DIODE	MA2S111-(TX)	
790001250	S.DIODE	MA2S111-(TX)	except [EXP]
790001250		, ,	except [EXP]
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790001250	S.DIODE	MA2S111-(TX)	
790001620	S.DIODE	1SV308 (TPL3)	
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790001620	S.DIODE	1SV308 (TPL3)	
	790001260 750000520 750000520 750000520 7500001250 790001620 790001620 790001620 790001620 790001620 790001620 790001620 790001620 790001620 790001620 790001620	790001260         S.DIODE           750000520         S.DIODE           750000520         S.DIODE           750000520         S.DIODE           790001250         S.DIODE           7900002340         S.ZENER           750000370         S.DIODE           790001250         S.DIODE	790001260         S.DIODE         MA2S077-(TX)           750000520         S.DIODE         DAN222TL           750000520         S.DIODE         DAN222TL           7500001250         S.DIODE         MA2S111-(TX)           790001250         S.DIODE         MA2S111-(TX)           790001250         S.DIODE         MA2S111-(TX)           790001250         S.DIODE         MA2S111-(TX)           790001250         S.DIODE         MA2S077-(TX)           790001250         S.DIODE         MA2S111-(TX)           790001250         S.DIODE         MA2S111-(TX)           790001250         S.DIODE         MA2S111-(TX)           7900001250         S.DIODE         MA2S111-(TX)           790000230         S.DIODE         MA2S111-(TX)           790000230         S.DIODE         MA2F111-(TX)           790000250         S.DIODE         MA2S111-(TX)           790001250         S.DIODE         MA2S111-(TX)           790001250

#### ORDER REF **DESCRIPTION** NO. NO. D2063 1790001620 S.DIODE 1SV308 (TPL3) D2064 1790001620 S.DIODE 1SV308 (TPL3) D2065 1790001620 S.DIODE 1SV308 (TPL3) D2066 1790001620 S.DIODE 1SV308 (TPL3) D2067 1790001620 S.DIODE 1SV308 (TPL3) D2068 1790001620 S.DIODE 1SV308 (TPL3) 1790001250 S.DIODE MA2S111-(TX) D2069 D2070 1750000510 S.DIODE UM9401F D2071 1790001250 S.DIODE MA2S111-(TX) FI1000 2020001270 CERAMIC CFWLB450KE2A-B0 FI1001 2020001460 CERAMIC CFWLA450KHFA-B0 [USA] only FI1002 2020000920 CERAMIC CFWLB455KEFA-B0 FI1003 2010002550 S.MONOLITHIC FL-342 (38.85 MHz) FI1004 2010002560 S.MONOLITHIC FL-344 (46.05 MHz) 6070000200 DISCRIMINATOR CDBLA450KCAY24-B0 X1001 X1002 6070000230 DISCRIMINATOR CDBLA455KCAY24-B0 X1003 6050011330 S.XTAL CR-723 (45.595 MHz) X2001 6050009520 S.XTAL CR-520 (19.6608 MHz+) L2 6200008270 S.COIL 0.26-1.0-5TL 17N L4 6200008270 S.COIL 0.26-1.0-5TL 17N L5 6200008270 S.COIL 0.26-1.0-5TL 17N L6 6200008270 S.COIL 0.26-1.0-5TL 17N L10 6200005660 S.COIL ELJRE 10NG-F L11 6200004960 S.COIL NL 252018T-R33J L13 6200008270 S COIL 0.26-1.0-5TL 17N L15 6200008270 S.COIL 0.26-1.0-5TL 17N L16 6200005650 S.COIL ELJRE 8N2Z-F L19 6200005680 S.COIL **ELJRE 15NG-F** lı 20 6200005670 S.COIL ELJRE 12NG-F lı 21 6200008270 S COII 0.26-1.0-5TL 17N L22 6200008270 S.COIL 0.26-1.0-5TL 17N L23 6200008270 S.COIL 0.26-1.0-5TL 17N 1 24 6200008270 S.COIL 0.26-1.0-5TL 17N 1 25 6200002640 S COII NI 252018T-R15J 6200003950 S.COIL lı 26 HF50ACC 322513-T L27 6200007740 S.COIL LQW2BHN47NJ01L L32 6200003950 S.COIL HF50ACC 322513-T 1 33 6200010170 S.COIL AS080447-33N 134 6190001520 S.COIL ZBFS5101-PT 6110001690 I A-255 1 35 COII L37 6200002420 S.COIL NL 252018T-068J 6200002590 NL 252018T-039.I L38 S.COIL 1 วด 6200002420 S COII NI 252018T-068 I 6200002590 1 40 S.COIL NL 252018T-039J 6170000180 COIL I W-19 1 44 6200002580 NL 252018T-033J L46 S.COIL 6200003560 S COIL 1 48 NL 252018T-018.I 6200002630 NI 252018T-R10J 1 50 S COII 6200002630 S COIL NL 252018T-R10J 1 52 1 53 6170000180 COIL I W-19 6200010060 S.COIL AS080647-56N 154 L55 6200008170 0.35-1.6-8TL 54N S.COIL LL 1608-FH82NJ 6200007650 S COIL 1 57 LL 1608-FH82NJ 1 59 6200007650 S COIL AS100340-10N 6200010040 S COIL lı 60 6200010150 S COIL AS080340-15N L61 6200003560 S.COIL NL 252018T-018J L63 6200002580 S COIL NI 252018T-033.I 1 65 6200002390 S.COIL LOW31HN64NJ01L lı 66 LQW31HN39NJ01L lı 67 6200002370 S COII 6200002390 S.COIL LQW31HN64NJ01L L68 6200002370 LQW31HN39NJ01L L69 S.COIL AS080340-15N 6200010150 S COIL 170 L71 AS080647-56N 6200010060 S COII 6200009200 S.COIL 0.45-1.5-4TL L72 AS080340-15N 6200010150 L73 S.COIL 6200010060 S.COIL AS080647-56N L76 AS080747-68N lı 77 6200010070 S COII 6200010150 S COIL AS080340-15N lı 78 C2012C-R18G L79 6200010330 S.COIL 6200010050 AS080547-47N L80 S.COIL 6200010150 AS080340-15N L81 S.COIL l 82 6200009890 S COII C2012C-82NG 6200010320 C2012C-R15G L84 S.COIL 6170000180 L85 COIL LW-19 6170000180 LW-19 L86 COIL

## [MAIN UNIT]

[MAIN	I UNIT]		
REF NO.	ORDER NO.		DESCRIPTION
L87	6200005670	S.COIL	ELJRE 12NG-F ELJRE 12NG-F
L88 L90	6200005670 6200005740	S.COIL S.COIL	ELJRE 12NG-F ELJRE 47NG-F
L91	6200005740	S.COIL	ELJRE 47NG-F
L93	6200007770	S.COIL	LQW2BHNR10J01L
L94	6200005670	S.COIL	ELJRE 12NG-F
L1000	6200004470 6200005190	S.COIL	MLF1608D R12K-T MLF1608D R56K-T
L1001 L1002	6200005190	S.COIL S.COIL	LL1608-FH47NJ
L1004	6200005740	S.COIL	ELJRE 47NG-F
L1006	6200002610	S.COIL	NL 252018T-R47J
L1007	6200002610	S.COIL	NL 252018T-R47J LQW31HN33NJ01L
L1010 L1012	6200002360 6200002330	S.COIL S.COIL	LQW31HN35NJ01L LQW31HN15NJ01L
L1014	6200002640	S.COIL	NL 252018T-R15J
L1016	6200002640	S.COIL	NL 252018T-R15J
L1017	6200005730	S.COIL S.COIL	ELJRE 39NG-F ELJRE 15NG-F
L1018 L1020	6200005680 6200005670	S.COIL	ELJRE 13NG-F ELJRE 12NG-F
L1021	6200007550	S.COIL	LL1608-FH12NJ
L1023	6200005700	S.COIL	ELJRE 22NG-F
L1034	6200007580	S.COIL	LL1608-FH22NJ
L1035 L1036	6200007580 6200007530	S.COIL S.COIL	LL1608-FH22NJ LL1608-FH8N2J
L1038	6200007580	S.COIL	LL1608-FH22NJ
L1042	6200004730	S.COIL	MLF1608A 1R2K-T
L1045	6200007610	S.COIL	LL1608-FH39NJ
L1046 L1048	6200007610 6200007570	S.COIL S.COIL	LL1608-FH39NJ LL1608-FH18NJ
L1049	6200007570	S.COIL	LL1608-FH18NJ
L1050	6200005680	S.COIL	ELJRE 15NG-F
L1051	6200003550	S.COIL	MLF1608A 4R7K-T
L1052 L1053	6200003550 6200003550	S.COIL S.COIL	MLF1608A 4R7K-T MLF1608A 4R7K-T
L1054	6200003550	S.COIL	MLF1608A 4R7K-T
L1055	6200003550	S.COIL	MLF1608A 4R7K-T
L1056 L1057	6200003550 6200003550	S.COIL S.COIL	MLF1608A 4R7K-T MLF1608A 4R7K-T
L1057	6200003550	S.COIL	MLF1608A 4R7K-T
L1059	6200010060	S.COIL	AS080647-56N
L1060	6200007700	S.COIL	LQW2BHN22NJ01L
L1061 L1062	6200008090 6200006710	S.COIL S.COIL	LQW2BHN68NJ01L MLF1608E 5R6K 5.6U
L1063	6200006980	S.COIL	ELJRE R10G-F
L1064	6200006670	S.COIL	ELJRE 68NG-F
L1065	6200006990	S.COIL	ELJRE 56NG-F
L1066 L1067	6200005740 6200003550	S.COIL S.COIL	ELJRE 47NG-F MLF1608A 4R7K-T
L1068	6200006980	S.COIL	ELJRE R10G-F
L1069	6200005740	S.COIL	ELJRE 47NG-F
L1070 L1071	6200005640 6200005720	S.COIL S.COIL	ELJRE 6N8Z-F ELJRE 33NG-F
L1071	6200005720	S.COIL	ELJRE 22NG-F
L1073	6200005720	S.COIL	ELJRE 33NG-F
L1074	6200005720	S.COIL	ELJRE 33NG-F
L1077 L1078	6200009990 6200009990	S.COIL S.COIL	C2012C-R22G C2012C-R22G
L1078	6200005690	S.COIL	ELJRE 18NG-F
L1080	6200005730	S.COIL	ELJRE 39NG-F
R1	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R2	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R3	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R4 R5	7030003640 7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ) ERJ3GEYJ 473 V (47 kΩ)
R6	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R7	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R8	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R11 R12	7030003380 7030003270	S.RESISTOR S.RESISTOR	ERJ3GEYJ 331 V (330 Ω) ERJ3GEYJ 390 V (39 Ω)
R14	7030003270	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R15	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R18	7030003420	S.RESISTOR	ERJ3GEYJ 681 V (680 Ω)
R19 R21	7030003400 7030003320	S.RESISTOR S.RESISTOR	ERJ3GEYJ 471 V (470 Ω) ERJ3GEYJ 101 V (100 Ω)
R22	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R23	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R24	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R27 R28	7030003520 7030003400	S.RESISTOR S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 471 V (470 Ω)
R31	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
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#### ORDER REF **DESCRIPTION** NO. NO. R32 7030003280 S.RESISTOR ERJ3GEYJ 470 V (47 Ω) R33 7030000220 S.RESISTOR MCR10EZHJ 47 Ω (470) 7030003260 S.RESISTOR ERJ3GEYJ 330 V (33 Ω) R38 R39 7030003260 S.RESISTOR ERJ3GEYJ 330 V (33 Ω) 7030003670 S.RESISTOR ERJ3GEYJ 823 V (82 kΩ) R40 R41 7030003670 S.RESISTOR ERJ3GEYJ 823 V (82 kΩ) R43 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R44 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R45 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R47 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R48 7030000340 S.RESISTOR MCR10EZHJ 470 Ω (471) R51 7030003490 S.RESISTOR ERJ3GEYJ 272 V (2.7 kΩ) R52 7030003480 S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) R53 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R54 7030000280 S.RESISTOR MCR10EZHJ 150 $\Omega$ (151) R55 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R56 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R58 7030003720 S.RESISTOR ERJ3GEYJ 224 V (220 kΩ) R59 7030003740 S.RESISTOR ERJ3GEYJ 334 V (330 kΩ) R61 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R62 7030003710 S.RESISTOR ERJ3GEYJ 184 V (180 kΩ) R63 7030003620 S.RESISTOR ERJ3GEYJ 333 V (33 kΩ) R64 7030000340 S.RESISTOR MCR10EZHJ 470 $\Omega$ (471) R65 7030003480 S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) R68 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R69 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R70 7030003530 S.RESISTOR ERJ3GEYJ 562 V (5.6 kΩ) R71 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R72 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R73 7030003340 S.RESISTOR ERJ3GEYJ 151 V (150 Ω) R74 7030003340 S RESISTOR ERJ3GEYJ 151 V (150 Ω) R75 7030000270 S.RESISTOR MCR10EZHJ 120 $\Omega$ (121) R76 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R77 7030004050 S.RESISTOR ERJ3GEYJ 1R0 V (1 Ω) R78 7030000190 S.RESISTOR MCR10EZHJ 27 Ω (270) R79 7030006270 S RESISTOR ERJ12YJ221U (220 Ω) R80 7030000230 S.RESISTOR MCR10EZHJ 56 $\Omega$ (560) R81 7030000120 S.RESISTOR MCR10EZHJ 6.8 Ω (6R8) R82 7030003280 S.RESISTOR ERJ3GEYJ 470 V (47 Ω) R83 7030003320 S RESISTOR ERJ3GEYJ 101 V (100 Ω) R84 7030000190 S.RESISTOR MCR10EZHJ 27 Ω (270) R85 7030003590 S.RESISTOR ERJ3GEYJ 183 V (18 kΩ) R86 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R87 7030003320 S RESISTOR ERJ3GEYJ 101 V (100 Ω) R89 7030003490 S.RESISTOR ERJ3GEYJ 272 V (2.7 kΩ) R90 7030003490 S RESISTOR ERJ3GEYJ 272 V (2.7 kΩ) R91 7030000340 S.RESISTOR MCR10EZHJ 470 $\Omega$ (471) R92 7030003480 S RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) Ras 7030003480 S RESISTOR FR.I3GFY.I 222 V (2.2 kO) R94 7030003480 S RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) 7030003480 S RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) R95 R96 7030003560 S RESISTOR ERJ3GEYJ 103 V (10 kΩ) FRJ3GEYJ 104 V (100 kΩ) R97 7030003680 S RESISTOR R98 7030003680 S RESISTOR ERJ3GEYJ 104 V (100 kΩ) 7030003680 S RESISTOR ERJ3GEYJ 104 V (100 kΩ) R99 7030003680 FR.I3GFY.I 104 V (100 kQ) R100 S RESISTOR FRJ12YJ101U (100 Ω) R102 7030006070 S RESISTOR R103 7030003440 ERJ3GEYJ 102 V (1 kΩ) S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) 7030003680 S RESISTOR R104 ERJ3GEYJ 104 V (100 kΩ) R105 7030003680 S RESISTOR 7030003320 S RESISTOR R106 FR.J3GFY,J 101 V (100.0) 7030003320 ERJ3GEYJ 101 V (100 Ω) R107 S RESISTOR R108 7030008350 S.RESISTOR ERJ12YJ390U 7030003280 FR.I3GFY.I 470 V (47 Q) R109 S RESISTOR 7030003280 S RESISTOR R110 FR.J3GFY.J 470 V (47.Q) R111 7030003560 S RESISTOR FR.I3GFY.I 103 V (10 kO) R112 7030003340 S.RESISTOR ERJ3GEYJ 151 V (150 Ω) R113 7030003270 S.RESISTOR ERJ3GEYJ 390 V (39 Ω) 7030003670 S RESISTOR R114 FR.J3GFYJ 823 V (82 kO) R115 7030003610 S RESISTOR FR.J3GFY.J 273 V (27 kO) ERJ3GEYJ 184 V (180 kΩ) R117 7030003710 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R118 7030003560 S.RESISTOR 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R120 R123 7030003710 S RESISTOR FR.I3GFY.I 184 V (180 kO) 7030003630 S RESISTOR FR.I3GFY.I 393 V (39 kO) R124 R125 7030003840 S.RESISTOR ERJ3GEYJ 225 V (2.2 MΩ) 7030003630 S.RESISTOR R126 ERJ3GEYJ 393 V (39 kΩ) R127 7030003840 S.RESISTOR ERJ3GEYJ 225 V (2.2 MΩ) 7030003680 S RESISTOR FR.I3GFY.I 104 V (100 kQ) R129 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R130 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R131 R132 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ)

#### [MAIN UNIT]

	UNII		
REF NO.	ORDER NO.		DESCRIPTION
R133	7030003600	S DESISTOR	ERJ3GEYJ 223 V (22 kΩ) [USA]
K 133	7030003600	S.RESISTOR S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) [OTHER]
R134	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R135	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R137 R138	7030000320	S.RESISTOR S.RESISTOR	MCR10EZHJ 330 $\Omega$ (331) MCR10EZHJ 10 k $\Omega$
R139	7030000500	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)
R140	7030003530	S.RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ) [USA]
	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) [OTHER]
R141	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ) ERJ3GEYJ 102 V (1 kΩ)
R142 R143	7030003440 7030000500	S.RESISTOR S.RESISTOR	MCR10EZHJ 10 kΩ
R144	7030000380	S.RESISTOR	MCR10EZHJ 1 kΩ
R145	7030003580	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)
R147 R148	7030003480	S.RESISTOR S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R149	7030003440 7030004050	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 1R0 V (1 Ω)
R150	7030003330	S.RESISTOR	ERJ3GEYJ 121 V (120 Ω)
R151	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R152	7030004050	S.RESISTOR	ERJ3GEYJ 1R0 V (1 Ω)
R154 R155	7030003520	S.RESISTOR S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 101 V (100 Ω)
R156	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R157	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R158	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R159 R160	7030003560 7030003640	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 473 V (47 kΩ)
R161	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R162	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R163	7030003200	S.RESISTOR	ERJ3GEYJ 100 V (10 Ω)
R164 R165	7030003200	S.RESISTOR S.RESISTOR	ERJ3GEYJ 100 V (10 Ω) MCR10EZHJ 680 Ω (681)
R166	7030000360	S.RESISTOR	MCR10EZHJ 680 Ω (681)
R172	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)
R173	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R174 R175	7030003440 7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 104 V (100 kΩ)
R176	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R177	7030003670	S.RESISTOR	ERJ3GEYJ 823 V (82 kΩ)
R178 R179	7030003270	S.RESISTOR	ERJ3GEYJ 390 V (39 Ω)
R179	7030003340	S.RESISTOR S.RESISTOR	ERJ3GEYJ 151 V (150 Ω) ERJ3GEYJ 151 V (150 Ω)
R181	7030003670	S.RESISTOR	ERJ3GEYJ 823 V (82 kΩ)
R182	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R183 R184	7030003220 7030003380	S.RESISTOR S.RESISTOR	ERJ3GEYJ 150 V (15 Ω) ERJ3GEYJ 331 V (330 Ω)
R185	7030003380	S.RESISTOR	ERJ3GEYJ 331 V (330 Ω)
R189	7030003630	S.RESISTOR	ERJ3GEYJ 393 V (39 kΩ)
R190	7030003630	S.RESISTOR	ERJ3GEYJ 393 V (39 kΩ)
R191 R192	7030003320	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 100 V (10 Ω)
R192	7030003200 7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R194	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R195	7030003380	S.RESISTOR	ERJ3GEYJ 331 V (330 Ω)
R196 R197	7030003220 7030003380	S.RESISTOR S.RESISTOR	ERJ3GEYJ 150 V (15 Ω) ERJ3GEYJ 331 V (330 Ω)
R198	7030003380	S.RESISTOR	ERJ3GEYJ 331 V (330 Ω)
R199	7030003220	S.RESISTOR	ERJ3GEYJ 150 V (15 Ω)
R200	7030003380	S.RESISTOR	ERJ3GEYJ 331 V (330 Ω)
R1003 R1004	7030003680 7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 104 V (100 kΩ)
R1004	7030003000	S.RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ)
R1006	7030003580	S.RESISTOR	ERJ3GEYJ 153 V (15 kΩ)
R1009	7030003630	S.RESISTOR	ERJ3GEYJ 393 V (39 kΩ)
R1010 R1012	7030003320 7030003660	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 683 V (68 kΩ)
R1012	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R1015	7030003660	S.RESISTOR	ERJ3GEYJ 683 V (68 kΩ)
R1016	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R1017 R1018	7030003680 7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 104 V (100 kΩ)
R1019	7030003450	S.RESISTOR	ERJ3GEYJ 122 V (1.2 kΩ)
R1020	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R1021	7030003450	S.RESISTOR	ERJ3GEYJ 122 V (1.2 kΩ)
R1022 R1023	7030003820 7030003820	S.RESISTOR S.RESISTOR	ERJ3GEYJ 155 V (1.5 MΩ) ERJ3GEYJ 155 V (1.5 MΩ)
R1023	7030003700	S.RESISTOR	ERJ3GEYJ 154 V (150 kΩ)
R1025	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R1026	7030003720	S.RESISTOR	ERJ3GEYJ 224 V (220 kΩ)
R1027 R1028	7030003560 7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 103 V (10 kΩ)
R1029	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
	ļ		C. Curface mount

#### REF ORDER **DESCRIPTION** NO. NO. R1030 7030003530 S.RESISTOR ERJ3GEYJ 562 V (5.6 kΩ) R1031 7030003580 S.RESISTOR ERJ3GEYJ 153 V (15 kΩ) 7030003580 S.RESISTOR ERJ3GEYJ 153 V (15 kΩ) R1032 7030003500 S.RESISTOR ERJ3GEYJ 332 V (3.3 kΩ) R1033 7030003500 S.RESISTOR ERJ3GEYJ 332 V (3.3 kΩ) R1034 R1035 7030003580 S.RESISTOR ERJ3GEYJ 153 V (15 kΩ) 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R1036 R1037 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R1038 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R1039 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R1040 7030003580 S.RESISTOR ERJ3GEYJ 153 V (15 kΩ) R1041 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R1042 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R1043 7030003660 S.RESISTOR ERJ3GEYJ 683 V (68 kΩ) R1044 7030003660 S.RESISTOR ERJ3GEYJ 683 V (68 kΩ) R1045 7030003720 S.RESISTOR ERJ3GEYJ 224 V (220 kΩ) R1046 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R1047 7030003720 S.RESISTOR ERJ3GEYJ 224 V (220 kΩ) R1048 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R1049 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R1050 7030003600 | S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R1051 7030003380 S.RESISTOR ERJ3GEYJ 331 V (330 Ω) R1052 7030003380 S.RESISTOR ERJ3GEYJ 331 V (330 Ω) R1053 7030003660 S.RESISTOR ERJ3GEYJ 683 V (68 kΩ) R1054 7030003660 S.RESISTOR ERJ3GEYJ 683 V (68 kΩ) R1055 7030003660 S.RESISTOR ERJ3GEYJ 683 V (68 kΩ) R1056 7030003460 S.RESISTOR ERJ3GEYJ 152 V (1.5 kΩ) R1057 7030003710 S.RESISTOR ERJ3GEYJ 184 V (180 kΩ) R1058 7030003690 S.RESISTOR ERJ3GEYJ 124 V (120 kΩ) R1059 7030003780 S.RESISTOR ERJ3GEYJ 684 V (680 kΩ) R1060 7030003780 S RESISTOR ERJ3GEYJ 684 V (680 kΩ) R1061 7030003660 S.RESISTOR ERJ3GEYJ 683 V (68 kΩ) R1062 7030003660 S.RESISTOR ERJ3GEYJ 683 V (68 kΩ) R1063 7030003630 S.RESISTOR ERJ3GEYJ 393 V (39 kΩ) R1064 7030003630 S RESISTOR ERJ3GEYJ 393 V (39 kΩ) R1065 7030003600 S RESISTOR ERJ3GEYJ 223 V (22 kΩ) R1066 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R1067 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R1068 7030003570 S RESISTOR ERJ3GEYJ 123 V (12 kΩ) R1069 7030003840 S RESISTOR ERJ3GEYJ 225 V (2.2 MΩ) R1070 7030003570 S RESISTOR ERJ3GEYJ 123 V (12 kΩ) R1071 7030003840 S.RESISTOR ERJ3GEYJ 225 V (2.2 MΩ) R1072 7030003840 S.RESISTOR ERJ3GEYJ 225 V (2.2 MΩ) R1074 7030003840 S RESISTOR ERJ3GEYJ 225 V (2.2 MΩ) R1075 7030003840 S RESISTOR ERJ3GEYJ 225 V (2.2 MΩ) ERJ3GEYJ 225 V (2.2 MΩ) R1076 7030003840 S RESISTOR R1077 7030003840 S.RESISTOR ERJ3GEYJ 225 V (2.2 MΩ) ERJ3GEYJ 101 V (100 Ω) R1080 7030003320 S RESISTOR R1081 7030003560 S RESISTOR FRJ3GFYJ 103 V (10 kQ) R1082 7030003320 S RESISTOR ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 471 V (470 Ω) R1083 7030003400 S RESISTOR R1084 7030003460 S RESISTOR ERJ3GEYJ 152 V (1.5 kΩ) ERJ3GEYJ 473 V (47 kΩ) R1085 7030003640 S RESISTOR ERJ3GEYJ 123 V (12 kΩ) R1086 7030003570 S RESISTOR ERJ3GEYJ 474 V (470 kΩ) R1087 7030003760 S RESISTOR R1088 FR.J3GFY.J 223 V (22 kO) 7030003600 S RESISTOR FRJ3GEYJ 153 V (15 kΩ) R1090 7030003580 S RESISTOR ERJ3GEYJ 184 V (180 kΩ) R1091 7030003710 S.RESISTOR ERJ3GEYJ 333 V (33 kΩ) R1092 7030003620 S RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R1093 7030003520 S RESISTOR R1097 7030003400 S RESISTOR FR.I3GFY.I 471 V (470.O) R1098 7030003600 FRJ3GEYJ 223 V (22 kΩ) S RESISTOR R1102 7030003560 ERJ3GEYJ 103 V (10 kΩ) S.RESISTOR R1103 7030003560 ERJ3GEYJ 103 V (10 kΩ) S RESISTOR ERJ3GEYJ 102 V (1 kΩ) R1104 7030003440 S RESISTOR ERJ3GEYJ 184 V (180 kΩ) R1106 7030003710 S RESISTOR 7030003570 S.RESISTOR ERJ3GEYJ 123 V (12 kΩ)[USA] only R1107 ERJ3GEYJ 471 V (470 Ω) R1108 7030003400 S.RESISTOR FR.I3GFY.I 222 V (2.2 kO) R1109 7030003480 S RESISTOR 7030003570 S RESISTOR FR.I3GFY.I 123 V (12 kO) R1111 S.RESISTOR ERJ3GEYJ 334 V (330 kΩ) R1113 7030003740 ERJ3GEYJ 683 V (68 kΩ) 7030003660 S.RESISTOR R1114 7030003240 ERJ3GEYJ 220 V (22 Ω) R1116 S.RESISTOR 7030003570 S RESISTOR ERJ3GEYJ 123 V (12 kΩ)[USA] only R1117 S RESISTOR FR.I3GFY.I 223 V (22 kO) 7030003600 R1118 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R1120 7030003400 S.RESISTOR ERJ3GEYJ 471 V (470 Ω) R1121 ERJ3GEYJ 103 V (10 kΩ) R1122 7030003560 S.RESISTOR 7030003580 S RESISTOR FRJ3GFYJ 153 V (15 kO) R1123 7030003500 ERJ3GEYJ 332 V (3.3 kΩ) R1124 S.RESISTOR 7030003560 ERJ3GEYJ 103 V (10 kΩ) R1126 S.RESISTOR R1127 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ)

#### [MAIN UNIT]

	UNII		
REF NO.	ORDER NO.		DESCRIPTION
R1129	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R1131	7030003500	S.RESISTOR	ERJ3GEYJ 183 V (18 kΩ)
R1132	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R1135	7030003610	S.RESISTOR	ERJ3GEYJ 273 V (27 kΩ)
R1136	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R1137 R1139	7030003380	S.RESISTOR S.RESISTOR	ERJ3GEYJ 331 V (330 Ω) ERJ3GEYJ 472 V (4.7 kΩ)
R1142	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R1145	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R1146 R1149	7030003450	S.RESISTOR	ERJ3GEYJ 122 V (1.2 kΩ)
R1149 R1151	7030003320 7030003420	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 681 V (680 Ω)
R1152	7030003460	S.RESISTOR	ERJ3GEYJ 152 V (1.5 kΩ)
R1153	7030003380	S.RESISTOR	ERJ3GEYJ 331 V (330 Ω)
R1156	7030003510	S.RESISTOR	ERJ3GEYJ 392 V (3.9 kΩ)
R1158 R1159	7030003550	S.RESISTOR S.RESISTOR	ERJ3GEYJ 822 V (8.2 kΩ) ERJ3GEYJ 822 V (8.2 kΩ)
R1160	7030003600	S.RESISTOR	ERJ3GEYJ 223 V (22 kΩ)
R1161	7030003760	S.RESISTOR	ERJ3GEYJ 474 V (470 kΩ)
R1162	7030003500	S.RESISTOR	ERJ3GEYJ 332 V (3.3 kΩ) ERJ3GEYJ 184 V (180 kΩ)
R1163 R1164	7030003710 7030003620	S.RESISTOR S.RESISTOR	ERJ3GEYJ 184 V (180 kΩ) ERJ3GEYJ 333 V (33 kΩ)
R1165	7030003020	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R1168	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R1169	7030003450	S.RESISTOR	ERJ3GEYJ 122 V (1.2 kΩ)
R1170 R1172	7030003440	S.RESISTOR S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 184 V (180 kΩ)
R1173	7030003450	S.RESISTOR	ERJ3GEYJ 122 V (1.2 kΩ)
R1174	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R1175	7030003480	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)
R1178 R1179	7030003740	S.RESISTOR S.RESISTOR	ERJ3GEYJ 334 V (330 kΩ) ERJ3GEYJ 683 V (68 kΩ)
R1180	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R1181	7030003610	S.RESISTOR	ERJ3GEYJ 273 V (27 kΩ)
R1184	7030003840	S.RESISTOR	ERJ3GEYJ 225 V (2.2 MΩ)
R1185 R1187	7030003680	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 152 V (1.5 kΩ)
R1196	7030003380	S.RESISTOR	ERJ3GEYJ 331 V (330 Ω)
R1200	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R1201	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R1203 R1204	7030003280	S.RESISTOR S.RESISTOR	ERJ3GEYJ 470 V (47 Ω) ERJ3GEYJ 103 V (10 kΩ)
R1205	7030003430	S.RESISTOR	ERJ3GEYJ 821 V (820 Ω)
R1206	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R1207 R1208	7030003560 7030003370	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 271 V (270 Ω)
R1209	7030003570	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R1210	7030003280	S.RESISTOR	ERJ3GEYJ 470 V (47 Ω)
R1211	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R1212 R1213	7030003400 7030003280	S.RESISTOR S.RESISTOR	ERJ3GEYJ 471 V (470 Ω) ERJ3GEYJ 470 V (47 Ω)
R1214	7030003200	S.RESISTOR	ERJ3GEYJ 471 V (47 Ω)
R1215	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R1218	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)
R1219 R1223	7030003680 7030003560	S.RESISTOR S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 103 V (10 kΩ)
R1224	7030003300	S.RESISTOR	ERJ3GEYJ 182 V (1.8 kΩ)
R1225	7030003560	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ)
R1226	7030003470	S.RESISTOR	ERJ3GEYJ 182 V (1.8 kΩ)
R1227 R1228	7030003480 7030003480	S.RESISTOR S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ) ERJ3GEYJ 222 V (2.2 kΩ)
R1229	7030003480	S.RESISTOR	ERJ3GEYJ 563 V (56 kΩ)
R1232	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)
R1233	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)
R1234 R1235	7030003430 7030003370	S.RESISTOR S.RESISTOR	ERJ3GEYJ 821 V (820 Ω) ERJ3GEYJ 271 V (270 Ω)
R1236	7030003570	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R1237	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R1239	7030003360	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)
R1248 R1249	7030003560 7030003470	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 182 V (1.8 kΩ)
R1250	7030003470	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R1253	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)
R1254	7030003370	S.RESISTOR	ERJ3GEYJ 271 V (270 Ω)
R1255 R1256	7030003370 7030003480	S.RESISTOR S.RESISTOR	ERJ3GEYJ 271 V (270 Ω) ERJ3GEYJ 222 V (2.2 kΩ)
R1259	7030003400	S.RESISTOR	ERJ3GEYJ 1R0 V (1 Ω)
R1260	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R1269 R1275	7030003520 7030003520	S.RESISTOR S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 472 V (4.7 kΩ)
R1275	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)
R1284	7030003470	S.RESISTOR	ERJ3GEYJ 182 V (1.8 kΩ)
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#### ORDER REF **DESCRIPTION** NO. NO. R1285 7030003470 S.RESISTOR ERJ3GEYJ 182 V (1.8 kΩ) R1286 7030003510 S.RESISTOR ERJ3GEYJ 392 V (3.9 kΩ) 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R1288 R1289 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R1290 R1291 7030003500 S.RESISTOR ERJ3GEYJ 332 V (3.3 kΩ) 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R1296 R1297 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R1298 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R1299 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R1300 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R1301 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R1302 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R2000 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R2001 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R2002 7030000400 S.RESISTOR MCR10EZHJ 1.5 $k\Omega$ R2003 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R2004 7030000020 S.RESISTOR MCR10EZHJ 1 $\Omega$ (010) R2005 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R2006 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R2007 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R2008 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 $k\Omega$ ) R2010 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R2013 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R2014 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R2016 7030003480 S RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) R2017 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R2019 7410001090 S.ARRAY EXB-V8V 101JV R2020 7030005521 S.RESISTOR ERA3YKD 334V (330 kΩ) R2021 7030005501 S.RESISTOR ERA3YKD 124V (120 kΩ) R2022 7030005691 S RESISTOR FRA3YFD 123V R2023 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R2026 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R2027 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R2028 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R2033 7030003320 S RESISTOR ERJ3GEYJ 101 V (100 Ω) R2034 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R2035 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R2036 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R2038 7030003320 S RESISTOR ERJ3GEYJ 101 V (100 Ω) R2039 7030003760 S RESISTOR ERJ3GEYJ 474 V (470 kΩ) R2040 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R2048 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R2050 7030003640 SRESISTOR ERJ3GEYJ 473 V (47 kΩ) R2051 7030003680 S RESISTOR ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 473 V (47 kΩ) R2052 7030003640 S RESISTOR R2053 7030003620 S.RESISTOR ERJ3GEYJ 333 V (33 kΩ) R2054 7030003440 S RESISTOR ERJ3GEYJ 102 V (1 kΩ) 7030003560 S.RESISTOR R2055 ERJ3GEYJ 103 V (10 kΩ) R2056 7030003620 SRESISTOR ERJ3GEYJ 333 V (33 kΩ) 7030003550 S RESISTOR ERJ3GEYJ 822 V (8.2 kΩ) R2057 R2058 7030003560 S RESISTOR ERJ3GEYJ 103 V (10 kΩ) FRJ3GEYJ 333 V (33 kΩ) R2060 7030003620 S RESISTOR R2061 7030003840 SRESISTOR ERJ3GEYJ 225 V (2.2 MΩ) 7030003840 S RESISTOR ERJ3GEYJ 225 V (2.2 MΩ) R2062 7030003560 S RESISTOR FRJ3GFYJ 103 V (10 kO) R2063 FRJ3GEYJ 103 V (10 kΩ) R2064 7030003560 S RESISTOR 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R2065 7030003840 S RESISTOR ERJ3GEYJ 225 V (2.2 MΩ) R2066 R2067 7030003840 S RESISTOR FR.I3GFY.I 225 V (2.2 MQ) 7030003560 S RESISTOR R2068 FRJ3GFYJ 103 V (10 kO) 7030003350 S RESISTOR FRJ3GEYJ 181 V (180 Ω) R2073 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R2074 7030003360 S RESISTOR FR.I3GFY.I 221 V (220 O) R2075 7030000100 S RESISTOR R2076 MCR10F7HJ 4 7 O (4R7) R2077 7030000100 S RESISTOR MCR10F7HJ 4 7 Q (4R7) 7030003780 S.RESISTOR R2078 ERJ3GEYJ 684 V (680 kΩ) ERJ3GEYJ 123 V (12 kΩ) 7030003570 S.RESISTOR R2083 7030003680 S RESISTOR R2084 FR.I3GFY.I 104 V (100 kQ) 7030003520 S RESISTOR FR.I3GFY.I 472 V (4.7 kO) R2086 7030003700 S.RESISTOR ERJ3GEYJ 154 V (150 kΩ) R2087 ERJ3GEYJ 105 V (1 MΩ) 7030003800 S.RESISTOR R2088 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R2090 7030003840 S RESISTOR FR.I3GFY.I 225 V (2.2 MQ) R2091 7030003840 S RESISTOR FR.J3GFY.J 225 V (2.2 MO) R2092 ERJ3GEYJ 225 V (2.2 MΩ) R2093 7030003840 S.RESISTOR 7030003840 R2094 S.RESISTOR ERJ3GEYJ 225 V (2.2 MΩ) R2095 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) 7030003560 S RESISTOR FR.I3GFY.I 103 V (10 kO) R2096 7030003840 S.RESISTOR ERJ3GEYJ 225 V (2.2 MΩ) R2098 7030003580 S.RESISTOR ERJ3GEYJ 153 V (15 kΩ) R2099 R2100 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ)

## [MAIN UNIT]

[MAIN	[MAIN UNIT]			
REF NO.	ORDER NO.		DESCRIPTION	
R2101	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R2102	7030003520 7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 472 V (4.7 kΩ)	
R2103 R2104	7030003520	S.RESISTOR S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ) ERJ3GEYJ 104 V (100 kΩ)	
R2105	7510001470		NTCG20 4AG 473JT	
R2106	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	
R2107	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R2108	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R2109	7030003520	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	
R2116	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 822 V (8.2 kΩ) [USA]	
R2117	7030003550 7030003530	S.RESISTOR S.RESISTOR	ERJ3GEYJ 822 V (8.2 k $\Omega$ ) [USA] ERJ3GEYJ 562 V (5.6 k $\Omega$ ) [OTHER]	
R2118	7030003550	S.RESISTOR	ERJ3GEYJ 822 V (8.2 kΩ) [USA]	
	7030003530	S.RESISTOR	ERJ3GEYJ 562 V (5.6 kΩ) [OTHER]	
R2119	7030003610 7030003550	S.RESISTOR S.RESISTOR	ERJ3GEYJ 273 V (27 k $\Omega$ ) [USA] ERJ3GEYJ 822 V (8.2 k $\Omega$ ) [OTHER]	
R2120	7030003610	S.RESISTOR	ERJ3GEYJ 273 V (27 kΩ) [USA]	
	7030003550	S.RESISTOR	ERJ3GEYJ 822 V (8.2 kΩ) [OTHER]	
R2121	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R2122 R2124	7030003640 7410001090	S.RESISTOR S.ARRAY	ERJ3GEYJ 473 V (47 kΩ) EXB-V8V 101JV	
R2124 R2128	7410001090	S.ARRAY	EXB-V8V 101JV	
R2136	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	
R2137	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	
R2161	7030003700	S.RESISTOR	ERJ3GEYJ 154 V (150 kΩ)	
R2162	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	
R2163 R2164	7030003320 7410001090	S.RESISTOR S.ARRAY	ERJ3GEYJ 101 V (100 Ω) EXB-V8V 101JV	
R2164 R2166	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	
R2167	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	
R2169	7030003740	S.RESISTOR	ERJ3GEYJ 334 V (330 kΩ)	
R2170	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	
R2171	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	
R2172 R2173	7410001090 7410001090	S.ARRAY S.ARRAY	EXB-V8V 101JV EXB-V8V 101JV	
R2173	7410001090	S.ARRAY	EXB-V8V 101JV	
R2176	7410001090	S.ARRAY	EXB-V8V 101JV	
R2177	7410001090	S.ARRAY	EXB-V8V 101JV	
R2182	7030003320	S.RESISTOR	ERJ3GEYJ 101 V (100 Ω)	
R2183 R2185	7030003640	S.RESISTOR	ERJ3GEYJ 473 V (47 kΩ)	
R2186	7030003560 7030003520	S.RESISTOR S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 472 V (4.7 kΩ)	
R2187	7030003320	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R2191	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	
R2192	7030003330	S.RESISTOR	ERJ3GEYJ 121 V (120 Ω)	
R2197	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)	
R2198 R2199	7030003400 7030003400	S.RESISTOR S.RESISTOR	ERJ3GEYJ 471 V (470 Ω) ERJ3GEYJ 471 V (470 Ω)	
R2200	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)	
R2201	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)	
R2202	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)	
R2203	7030003400	S.RESISTOR	ERJ3GEYJ 471 V (470 Ω)	
R2204 R2205	7030003400 7030003380	S.RESISTOR S.RESISTOR	ERJ3GEYJ 471 V (470 Ω) ERJ3GEYJ 331 V (330 Ω)	
R2206	7030003380	S.RESISTOR	ERJ3GEYJ 270 V (27 Ω)	
R2207	7030003260	S.RESISTOR	ERJ3GEYJ 330 V (33 Ω)	
R2208	7030003250	S.RESISTOR	ERJ3GEYJ 270 V (27 Ω)	
R2209	7030003220	S.RESISTOR	ERJ3GEYJ 150 V (15 Ω)	
R2210 R2211	7030003320 7030003310	S.RESISTOR S.RESISTOR	ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 820 V (82 Ω)	
R2211	7030003310	S.RESISTOR	ERJ3GEYJ 820 V (82 Ω) ERJ3GEYJ 121 V (120 Ω)	
R2213	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R2214	7030003440	S.RESISTOR	ERJ3GEYJ 102 V (1 kΩ)	
R2215	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	
R2216 R2217	7030003250 7030003270	S.RESISTOR S.RESISTOR	ERJ3GEYJ 270 V (27 Ω) ERJ3GEYJ 390 V (39 Ω)	
R2217	7030003270	S.RESISTOR S.RESISTOR	ERJ3GEYJ 270 V (27 Ω)	
R2219	7030003230	S.RESISTOR	ERJ3GEYJ 472 V (4.7 kΩ)	
R2220	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	
R2221	7030003360	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)	
R2222	7030003420	S.RESISTOR	ERJ3GEYJ 681 V (680 Ω)	
R2223 R2224	7030003350 7030003350	S.RESISTOR S.RESISTOR	ERJ3GEYJ 181 V (180 Ω) ERJ3GEYJ 181 V (180 Ω)	
R2225	7030003350	S.RESISTOR	ERJ3GEYJ 181 V (180 Ω)	
R2226	7030003350	S.RESISTOR	ERJ3GEYJ 181 V (180 Ω)	
R2227	7030003360	S.RESISTOR	ERJ3GEYJ 221 V (220 Ω)	
R2228	7030003420	S.RESISTOR	ERJ3GEYJ 681 V (680 Ω)	
R2229	7030003350	S.RESISTOR	ERJ3GEYJ 181 V (180 Ω) ERJ3GEYJ 181 V (180 Ω)	
R2230 R2231	7030003350 7030003350	S.RESISTOR S.RESISTOR	ERJ3GEYJ 181 V (180 Ω) ERJ3GEYJ 181 V (180 Ω)	
R2234	7030003330	S.RESISTOR	ERJ3GEYJ 222 V (2.2 kΩ)	
R2235	7030003680	S.RESISTOR	ERJ3GEYJ 104 V (100 kΩ)	

#### ORDER REF **DESCRIPTION** NO. NO. R2236 7030003520 S RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R2237 7030003760 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R2238 R2239 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) 7030003760 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R2240 R2241 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) 7030003420 S.RESISTOR ERJ3GEYJ 681 V (680 Ω) R2248 R2249 7030003590 S.RESISTOR ERJ3GEYJ 183 V (18 kΩ) R2250 7030003500 S.RESISTOR ERJ3GEYJ 332 V (3.3 kΩ) R2251 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R2252 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R2253 7030003620 S.RESISTOR ERJ3GEYJ 333 V (33 kΩ) R2254 7030003660 S.RESISTOR ERJ3GEYJ 683 V (68 kΩ) R2255 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R2256 7030003530 S.RESISTOR ERJ3GEYJ 562 V (5.6 kΩ) R2257 7030003580 S.RESISTOR ERJ3GEYJ 153 V (15 kΩ) R2258 7030004050 S.RESISTOR ERJ3GEYJ 1R0 V (1 Ω) R2259 7030003760 S.RESISTOR ERJ3GEYJ 474 V (470 kΩ) R2260 7030003590 S.RESISTOR ERJ3GEYJ 183 V (18 kΩ) R2261 7030003600 S.RESISTOR ERJ3GEYJ 223 V (22 kΩ) R2262 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R2263 7030003630 S.RESISTOR ERJ3GEYJ 393 V (39 kΩ) R2264 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R2265 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R2266 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R2267 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R2268 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R2269 7030000500 S.RESISTOR MCR10EZHJ 10 kΩ R2270 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R2271 7030000500 S.RESISTOR MCR10EZHJ 10 kΩ R2272 7030003440 S RESISTOR ERJ3GEYJ 102 V (1 kΩ) R2273 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R2274 7030003680 S.RESISTOR ERJ3GEYJ 104 V (100 kΩ) R2275 7030003690 S.RESISTOR ERJ3GEYJ 124 V (120 kΩ) R2276 7030003600 S RESISTOR ERJ3GEYJ 223 V (22 kΩ) R2277 7030003840 S RESISTOR ERJ3GEYJ 225 V (2.2 MΩ) R2278 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) C1608 JB 1E 104K-T C1 4030011600 S CERAMIC C2 4510007510 S.ELECTOR ECEV1AA470WR С3 4030011600 S.CERAMIC C1608 JB 1E 104K-T C4 4030010780 S.CERAMIC C1608 CH 1H 1R5C-T C5 4030009350 S CFRAMIC C1608 CH 1H 3R5B-T C7 4030009530 S CFRAMIC C1608 CH 1H 030B-T C1608 CH 1H 070D-T C8 4030006980 S CFRAMIC C9 4030006980 S.CERAMIC C1608 CH 1H 070D-T C10 4030009570 S CERAMIC C1608 CH 1H 0R3B-T 4030006860 C11 S CERAMIC C1608 JB 1H 102K-T C12 4030009570 S CFRAMIC C1608 CH 1H 0R3B-T C13 4030006860 S CERAMIC C1608 JB 1H 102K-T S.CERAMIC C15 4030006860 C1608 JB 1H 102K-T C16 4030006860 S CERAMIC C1608 JB 1H 102K-T 4030006860 S CERAMIC C1608 JB 1H 102K-T C20 4030008630 C1608 JF 1H 104Z-T C21 S CFRAMIC C1608 JF 1H 104Z-T 4030008630 S CFRAMIC C22 C1608 CH 1H 150.I-T C23 4030007030 S CERAMIC 4030007030 S.CERAMIC C1608 CH 1H 150J-T C24 4030006860 S CERAMIC C1608 JB 1H 102K-T C25 C26 4030006860 S CFRAMIC C1608 JB 1H 102K-T 4030006990 S CERAMIC C1608 CH 1H 080D-T C27 4030006990 S CERAMIC C1608 CH 1H 080D-T C28 4030006850 S.CERAMIC C1608 JB 1H 471K-T C29 4030006950 S CERAMIC C1608 CH 1H 040C-T C32 4030006950 C1608 CH 1H 040C-T C33 S CFRAMIC C36 4030006860 S CERAMIC C1608 JB 1H 102K-T 4030006860 S.CERAMIC C37 C1608 JB 1H 102K-T S.CERAMIC C1608 JB 1H 102K-T C38 4030006860 4510004640 S FLECTROLYTIC ECEV1CA470SP C39 C40 4030006960 S CFRAMIC C1608 CH 1H 050C-T C41 4030006860 S.CERAMIC C1608 JB 1H 102K-T S.CERAMIC C42 4030006860 C1608 JB 1H 102K-T 4030008630 C43 S.CERAMIC C1608 JF 1H 104Z-T C1608 JB 1H 102K-T C44 4030006860 S CERAMIC 4030009350 S CERAMIC C1608 CH 1H 3R5B-T C46 S.CERAMIC C1608 JF 1H 104Z-T C47 4030008630 4030006940 C1608 CH 1H 030C-T C51 S.CERAMIC S.CERAMIC C52 4030008630 C1608 JF 1H 104Z-T C53 4030006860 S CERAMIC C1608 JB 1H 102K-T 4030006860 S.CERAMIC C1608 JB 1H 102K-T C54 4030006980 S.CERAMIC C1608 CH 1H 070D-T C56 C1608 CH 1H 070D-T C57 4030006980 S.CERAMIC

## [MAIN UNIT]

CS9         4030006999 b. S.CERAMIC         C1608 CH 1H 080D-T           C63         4030011600 b. S.CERAMIC         C1608 CH 1H 080D-T           C65         4030009870 b. S.CERAMIC         C1608 JB 1H 102K-T           C66         4030009870 b. S.CERAMIC         C1608 CH 1H 083B-T           C67         4030009870 b. S.CERAMIC         C1608 CH 1H 083B-T           C68         4030006860 b. S.CERAMIC         C1608 JB 1H 102K-T           C70         4030006860 b. S.CERAMIC         C1608 JB 1H 102K-T           C73         4030007130 b. S.CERAMIC         C1608 JB 1H 102K-T           C74         4030006860 b. S.CERAMIC         C1608 JB 1H 102K-T           C74         4030006860 b. S.CERAMIC         C1608 JB 1H 102K-T           C74         4030006860 b. S.CERAMIC         C1608 JB 1H 102K-T           C77         4030007600 b. S.CERAMIC         C1608 JB 1H 102K-T           C78         4030007600 b. S.CERAMIC         C1608 JB 1H 102K-T           C81         4030007600 b. S.CERAMIC         C1608 JB 1H 102K-T           C81         4030007600 b. S.CERAMIC         C1608 JB 1H 102K-T           C84         4030006860 b. S.CERAMIC         C1608 JB 1H 102K-T           C84         4030006860 b. S.CERAMIC         C1608 JB 1H 102K-T           C85         4030006860 b	[MAIN	I UNIT]		
CS9         4030006990 S.CERAMIC         C1608 CH 1H 080D-T           C60         4030011600 S.CERAMIC         C1608 CH 1H 080D-T           C65         4030009820 S.CERAMIC         C1608 JB 1H 104K-T           C66         4030009870 S.CERAMIC         C1608 CH 1H 083B-T           C67         4030008800 S.CERAMIC         C1608 CH 1H 083B-T           C69         4030006860 S.CERAMIC         C1608 JB 1H 102K-T           C70         403000860 S.CERAMIC         C1608 JB 1H 102K-T           C73         4030007130 S.CERAMIC         C1608 JB 1H 102K-T           C74         403000860 S.CERAMIC         C1608 JB 1H 102K-T           C74         4030007800 S.CERAMIC         C1608 JB 1H 102K-T           C77         4030007800 S.CERAMIC         C1608 JB 1H 102K-T           C78         4030007800 S.CERAMIC         C1608 JB 1H 102K-T           C79         4030007800 S.CERAMIC         C1608 JB 1H 102K-T           C81         4030006860 S.CERAMIC         C1608 JB 1H 102K-T           C81         4030006800 S.CERAMIC         C1608 JB 1H 102K-T           C84         4030006800 S.CERAMIC         C1608 JB 1H 102K-T           C85         4030006800 S.CERAMIC         C1608 JB 1H 102K-T           C86         4030006800 S.CERAMIC         C1608 JB 1H 102K-T				DESCRIPTION
C60         4030006930         S.CERAMIC         C1608 JB 18 104K-T           C65         4030008920         S.CERAMIC         C1608 JB 18 104K-T           C66         4030008930         S.CERAMIC         C1608 CH 11 0R3B-T           C77         4030006800         S.CERAMIC         C1608 CH 11 0R3B-T           C68         4030006800         S.CERAMIC         C1608 JB 11 102K-T           C79         4030006800         S.CERAMIC         C1608 JB 11 102K-T           C73         4030007310         S.CERAMIC         C1608 CH 11 101J-T           C74         4030007600         S.CERAMIC         C1608 CH 11 102K-T           C75         4030007600         S.CERAMIC         C1608 JB 11 102K-T           C76         4030007600         S.CERAMIC         C1608 CH 11 270J-T           C77         4030007600         S.CERAMIC         C1608 CH 11 270J-T           C80         4030006800         S.CERAMIC         C1608 CH 11 17SC-T           C81         4030006800         S.CERAMIC         C1608 B 11 102K-T           C82         4030006800         S.CERAMIC         C1608 B 11 102K-T           C83         4030006800         S.CERAMIC         C1608 B 11 102K-T           C84         4030006800         S.CERAMIC <td>C58</td> <td></td> <td></td> <td></td>	C58			
C65				
C65         4030008970         S.CERAMIC         C1608 CH 11 PG3B-T           C67         4030009350         S.CERAMIC         C1608 CH 11 PG3B-T           C68         4030006860         S.CERAMIC         C1608 JB 1H 102k-T           C70         4030006860         S.CERAMIC         C1608 JB 1H 102k-T           C73         4030007130         S.CERAMIC         C1608 JB 1H 102k-T           C74         4030006800         S.CERAMIC         C1608 JB 1H 102k-T           C76         4030007600         S.CERAMIC         C1608 JB 1H 102k-T           C77         4030007600         S.CERAMIC         C1608 JB 1H 102k-T           C78         4030007600         S.CERAMIC         C1608 CH 1H 270J-T           C79         4030007600         S.CERAMIC         C1608 JB 1H 102k-T           C80         4030006800         S.CERAMIC         C1608 JB 1H 102k-T           C81         4030006800         S.CERAMIC         C1608 JB 1H 102k-T           C84         4030006800         S.CERAMIC         C1608 JB 1H 102k-T           C85         4030006800         S.CERAMIC         C1608 JB 1H 102k-T           C86         4030006800         S.CERAMIC         C1608 JB 1H 102k-T           C89         4510006220         S.ELECTRO				
C66         4030009350 S. CERAMIC         C1608 CH 114 DR3B-T           C68         4030006860 S. CERAMIC         C1608 JB 1H 102K-T           C70         4030006860 S. CERAMIC         C1608 JB 1H 102K-T           C70         4030006860 S. CERAMIC         C1608 JB 1H 102K-T           C74         4030006860 S. CERAMIC         C1608 JB 1H 102K-T           C74         4030006860 S. CERAMIC         C1608 JB 1H 102K-T           C76         4030006860 S. CERAMIC         C1608 JB 1H 102K-T           C77         4030006860 S. CERAMIC         C1608 CH 1H 270J-T           C78         4030006860 S. CERAMIC         C1608 BJ 1H 102K-T           C79         403000780 S. CERAMIC         C1608 CH 1H 270J-T           C81         403000780 S. CERAMIC         C1608 CH 1H 170J-T           C81         4030006860 S. CERAMIC         C1608 BJ 1H 102K-T           C84         4030006860 S. CERAMIC         C1608 JB 1H 102K-T           C85         4030006860 S. CERAMIC         C1608 JB 1H 102K-T           C86         4030006860 S. CERAMIC         C1608 JB 1H 102K-T           C87         451006220 S. CERAMIC         C1608 JB 1H 102K-T           C89         451006220 S. CERAMIC         C1608 JB 1H 102K-T           C91         451006220 S. CERAMIC         C1608 JB 1H				
C67         4030008860 S.CERAMIC         C1608 JB 1H 102K-T           C68         4030006860 S.CERAMIC         C1608 JB 1H 102K-T           C70         4030006860 S.CERAMIC         C1608 JB 1H 102K-T           C73         4030007303 S.CERAMIC         C1608 JB 1H 102K-T           C74         4030007603 S.CERAMIC         C1608 JB 1H 102K-T           C76         4030007605 S.CERAMIC         C1608 JB 1H 102K-T           C77         4030007606 S.CERAMIC         C1608 JB 1H 102K-T           C78         4030007605 S.CERAMIC         C1608 CH 1H 270J-T           C80         4030007605 S.CERAMIC         C1608 JB 1H 102K-T           C81         4030007605 S.CERAMIC         C1608 CH 1H 127D-T           C82         4030007605 S.CERAMIC         C1608 CH 1H 185C-T           C83         4030007605 S.CERAMIC         C1608 JB 1H 102K-T           C84         4030008660 S.CERAMIC         C1608 JB 1H 102K-T           C85         4030006860 S.CERAMIC         C1608 JB 1H 102K-T           C86         4030006860 S.CERAMIC         C1608 JB 1H 102K-T           C87         451006220 S.ELECTROLYTIC ECEV1CA101UP           C94         451006220 S.ELECTROLYTIC ECEV1CA101UP           C94         4510066220 S.ECRAMIC         C1608 JB 1H 102K-T           C160				
CS9         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C73         403000730         S.CERAMIC         C1608 JB 1H 102K-T           C74         4030008630         S.CERAMIC         C1608 JF 1H 104Z-T           C76         4030007600         S.CERAMIC         C1608 JF 1H 102K-T           C77         4030007600         S.CERAMIC         C1608 JB 1H 102K-T           C78         4030007600         S.CERAMIC         C1608 JB 1H 102K-T           C79         4030007000         S.CERAMIC         C1608 JB 1H 102K-T           C81         4030001780         S.CERAMIC         C1608 JB 1H 102K-T           C83         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C84         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C85         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C86         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C87         4510006220         S.ELECTROLYTIC ECEV-CA10**           C88         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C92         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C93         451006220         S.ELECTROLYTIC ECEV-CA10***<	C67			
C70         4030006880         S.CERAMIC         C1608 CH 1H 101J-T           C74         4030006830         S.CERAMIC         C1608 JB 1H 102K-T           C76         4030006830         S.CERAMIC         C1608 JB 1H 102K-T           C77         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C78         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C80         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C81         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C84         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C85         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C84         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C85         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C86         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C87         4510006220         S.ELECTROLYTIC ECEV1CA10**           C88         430006860         S.CERAMIC         C1608 JB 1H 102K-T           C91         430006860         S.CERAMIC         C1608 JB 1H 102K-T           C92         430006860         S.CERAMIC         C16	C68	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C73         4030007830         S.CERAMIC         C1608 JF 1H 104Z-T           C76         4030006860         S.CERAMIC         C1608 JF 1H 104Z-T           C78         4030007600         S.CERAMIC         C1608 JB 1H 102K-T           C78         4030007600         S.CERAMIC         C1608 JB 1H 102K-T           C79         4030007600         S.CERAMIC         C1608 JB 1H 102K-T           C81         4030007800         S.CERAMIC         C1608 JB 1H 102K-T           C81         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C83         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C84         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C85         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C87         4510006220         S.ELECTROLYTIC ECEVICA101UP           C88         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C91         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C92         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C93         451006220         S.ELECTROLYTIC ECEVICA101UP           C94         430006880         S.CERAMIC         C1608 JB 1H 102K-T<	C69	4030006860		
C74         4030006860         S.CERAMIC         C1608 JF 1H 104Z-T           C77         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C79         4030007680         S.CERAMIC         C1608 JB 1H 102K-T           C79         4030006860         S.CERAMIC         C1608 CH 1H 270J-T           C80         4030006860         S.CERAMIC         C1608 CH 1H 270J-T           C81         403000680         S.CERAMIC         C1608 CH 1H 1876C-T           C83         4030006800         S.CERAMIC         C1608 B 1H 102K-T           C84         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C85         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C86         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C87         4510006220         S.ELECTROLYTIC ECEVICA101UP           C89         4510006220         S.ELECTROLYTIC ECEVICA101UP           C91         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C92         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C93         4510066220         S.ELECTROLYTIC ECEVICA101UP           C94         4510066202         S.ELECTROLYTIC ECEVICA101UP <td< td=""><td>C70</td><td></td><td></td><td></td></td<>	C70			
C76         4030006880         S.CERAMIC         C1608 JB 1H 102K-T           C78         4030007060         S.CERAMIC         C1608 CH 1H 270J-T           C79         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C80         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C81         4030010780         S.CERAMIC         C1608 CH 1H 270J-T           C83         4030006860         S.CERAMIC         C1608 CH 1H 471K-T           C84         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C85         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C86         4030006800         S.CERAMIC         C1608 JB 1H 102K-T           C87         4510006220         S.ELECTROLYTIC ECEVICA101UP           C88         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C91         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C92         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C93         451006220         S.ELECTROLYTIC ECEVICA101UP           C94         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C104         4030006880         S.CERAMIC         C1608 JB 1H 102K-				
C778         4030007680         S.CERAMIC         C1608 CH 1H 270J-T           C78         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C80         4030007680         S.CERAMIC         C1608 CH 1H 270J-T           C81         40300077090         S.CERAMIC         C1608 CH 1H 270J-T           C83         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C84         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C85         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C86         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C87         4510006220         S.ELECTROLYTIC ECEV1CA101UP           C88         4510006220         S.ELECTROLYTIC ECEV1CA101UP           C94         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C91         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C92         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C93         4510006220         S.ELECTROLYTIC ECEV1CA101UP           C94         4510006620         S.ELECTROLYTIC ECEV1CA101UP           C97         4030006860         S.CERAMIC         C1608 JB 1H 102K-T	_	1		
C78         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C80         4030006860         S.CERAMIC         C1608 CH 1H 270J-T           C81         4030006860         S.CERAMIC         C1608 CH 1H 1785C-T           C83         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C84         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C85         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C86         4030009330         S.CERAMIC         C1608 JB 1H 102K-T           C87         4510006220         S.ELECTROLYTIC ECEVICA101UP           C88         430006860         S.CERAMIC         C1608 JB 1H 102K-T           C90         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C91         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C92         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C93         4510006220         S.ELECTROLYTIC ECEVICA101UP           C94         4310006850         S.CERAMIC         C1608 JB 1H 102K-T           C104         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C104         4030006860         S.CERAMIC         C1608 JB 1H 102				
C79         4030007680         S.CERAMIC         C1608 CH 1H 270J-T           C81         4030001780         S.CERAMIC         C1608 JB 1H 102K-T           C83         4030001770         S.CERAMIC         C1608 CH 1H 1R5C-T           C84         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C85         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C86         4030006860         S.CERAMIC         C1608 LB 1H 102K-T           C87         4510006220         S.ELECTROLYTIC ECEV-CA101UP           C88         4510006220         S.ELECTROLYTIC ECEV-CA101UP           C90         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C91         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C92         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C93         451006620         S.ELECTROLYTIC ECEV-CA101UP           C94         451006620         S.ELECTROLYTIC ECEV-CA101UP           C97         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C101         451006670         S.ELECTROLYTIC ECEV-CA101UP           C102         4030006880         S.CERAMIC         C1608 JB 1H 102K-T           C104				
C80				
C83         4030004710         S.CERAMIC         C1608 JB 1H 102K-T           C85         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C86         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C86         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C87         451006220         S.ELECTROLYTIC ECEV1CA101UP           C94         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C99         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C91         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C92         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C93         4510006220         S.ELECTROLYTIC ECEV1CA101UP           C94         4510006220         S.ELECTROLYTIC ECEV1CA101UP           C95         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C101         4510006670         S.ELECTROLYTIC ECEV1CA471P           C104         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C106         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C107         4030007900         S.CERAMIC         C1608 JB 1H 102K-T           <	C80	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C85	C81	4030010780	S.CERAMIC	C1608 CH 1H 1R5C-T
C85         4030008680         S.CERAMIC         C1608 CH 1H 3R5B-T           C87         403000830         S.CERAMIC         C1608 CH 1H 3R5B-T           C88         4510006220         S.ELECTROLYTIC ECEV1CA101UP           C89         451006220         S.ELECTROLYTIC ECEV1CA101UP           C90         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C91         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C92         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C93         4510006220         S.ELECTROLYTIC ECEV1CA101UP           C94         4510006220         S.ELECTROLYTIC ECEV1CA101UP           C97         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C98         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C101         451006670         S.ELECTROLYTIC ECEV1CA471P           C104         4030006880         S.CERAMIC         C1608 JB 1H 102K-T           C105         4030006880         S.CERAMIC         C1608 JB 1H 102K-T           C106         4030007800         S.CERAMIC         C1608 JB 1H 102K-T           C110         4030007900         S.CERAMIC         C1608 GC H 1H 09D-T           C112	C83	4030004710		
C86				
C87				
C88         4030006860 / 4510006220         S.ELECTROLYTIC ECEV1CA101UP           C90         4030006860 / 4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C91         4030006860 / 4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C92         4030006860 / 5.CERAMIC         C1608 JB 1H 102K-T           C93         4510006220 / 5.ELECTROLYTIC ECEV1CA101UP           C97         4030006860 / 5.CERAMIC         C1608 JB 1H 102K-T           C98         4030006860 / 5.CERAMIC         C1608 JB 1H 102K-T           C101         4510006270 / 5.ELECTROLYTIC ECEV1CA471P           C104         4030006860 / 5.CERAMIC         C1608 JB 1H 102K-T           C106         4030006860 / 5.CERAMIC         C1608 JB 1H 102K-T           C108         4030006880 / 5.CERAMIC         C1608 JB 1H 102K-T           C110         4030017960 / 5.CERAMIC         C1608 JB 1H 102K-T           C111         4030017960 / 5.CERAMIC         ERF22X 6C2H 330J D01L           C112         4030007000 / 5.CERAMIC         ERF22X 6C2H 360J D01L           C113         4030007300 / 5.CERAMIC         C1608 CH 1H 090D-T           C114         4030006940 / 5.CERAMIC         C1608 CH 1H 002C-T           C115         403006640 / 5.CERAMIC         C1608 CH 1H 002C-T           C116 <td></td> <td></td> <td></td> <td></td>				
C89         4510006220         S.ELECTROLYTIC ECEV1CA101UP           C91         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C91         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C92         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C93         4510006220         S.ELECTROLYTIC ECEV1CA101UP           C97         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C98         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C101         4510006670         S.CERAMIC         C1608 JB 1H 102K-T           C106         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C106         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C106         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C106         4030006880         S.CERAMIC         C1608 JB 1H 102K-T           C110         4030007900         S.CERAMIC         C1608 JB 1H 102K-T           C111         4030007900         S.CERAMIC         C1608 CH 1H 090D-T           C112         4030007300         S.CERAMIC         C1608 CH 1H 090D-T           C113         4030007300         S.CERAMIC         C1608 CH		1		
C90         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C92         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C92         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C93         4510006220         S.ELECTROLYTIC ECEV1CA101UP           C94         4510006200         S.ELECTROLYTIC ECEV1CA101UP           C97         4030006850         S.CERAMIC         C1608 JB 1H 102K-T           C98         4030006850         S.CERAMIC         C1608 JB 1H 471K-T           C104         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C106         4030006880         S.CERAMIC         C1608 JB 1H 102K-T           C108         4030006880         S.CERAMIC         C1608 JB 1H 102K-T           C110         4030017950         S.CERAMIC         C1608 JB 1H 102K-T           C111         4030017950         S.CERAMIC         ERF22X 6C2H 350J D01L           C112         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C113         4030006930         S.CERAMIC         C1608 CH 1H 090D-T           C114         4030007130         S.CERAMIC         C1608 CH 1H 0030C-T           C115         4030007130         S.CERAMIC         C160				
C91         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C92         403000680         S.CERAMIC         C1608 JB 1H 102K-T           C93         4510006220         S.ELECTROLYTIC ECEV1CA101UP           C98         403000680         S.CERAMIC         C1608 JB 1H 102K-T           C98         403000680         S.CERAMIC         C1608 JB 1H 102K-T           C101         4510006670         S.CERAMIC         C1608 JB 1H 102K-T           C104         4030006806         S.CERAMIC         C1608 JB 1H 102K-T           C106         4030006806         S.CERAMIC         C1608 JB 1H 102K-T           C106         4030006806         S.CERAMIC         C1608 JB 1H 102K-T           C108         4030006806         S.CERAMIC         C1608 JB 1H 102K-T           C110         4030007900         S.CERAMIC         C1608 JB 1H 102K-T           C111         4030007900         S.CERAMIC         C1608 CH 1H 090D-T           C112         4030007900         S.CERAMIC         C1608 CH 1H 090D-T           C113         4030007900         S.CERAMIC         C1608 CH 1H 090D-T           C114         4030007130         S.CERAMIC         C1608 CH 1H 090D-T           C115         4030007130         S.CERAMIC				
C93         4510006220         S.ELECTROLYTIC ECEV1CA101UP           C97         4300006860         S.CERAMIC         C1608 JB 1H 102K-T           C98         4030006850         S.CERAMIC         C1608 JB 1H 102K-T           C101         4510006670         S.CERAMIC         C1608 JB 1H 102K-T           C104         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C106         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C110         4030017960         S.CERAMIC         C1608 JB 1H 102K-T           C111         4030017950         S.CERAMIC         C1608 JB 1H 472K-T           C111         4030007900         S.CERAMIC         C1608 CH 1H 090D-T           C113         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C113         4030006930         S.CERAMIC         C1608 CH 1H 090D-T           C113         4030017970         S.CERAMIC         C1608 CH 1H 030C-T           C118         4030017970         S.CERAMIC         C1608 CH 1H 101J-T           C121         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C122         4030017180         S.CERAMIC         C1608 CH 1H 101J-T           C123         4030006860         S.CERAMIC	C91			
C94         4510006220         S.ELECTROLYTIC ECEV1CA101UP           C98         4030006860         S.CERAMIC         C1608 JB 1H 47IK-T           C98         4030006860         S.ELECTROLYTIC ECEV1CA471P           C101         4510006670         S.ELECTROLYTIC ECEV1CA471P           C106         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C108         4030006880         S.CERAMIC         C1608 JB 1H 102K-T           C108         4030017960         S.CERAMIC         C1608 JB 1H 102K-T           C111         4030017950         S.CERAMIC         ERF22X 6C2H 330J D01L           C111         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C112         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C113         4030007900         S.CERAMIC         C1608 CH 1H 030C-T           C114         40300079700         S.CERAMIC         C1608 CH 1H 030C-T           C115         4030007180         S.CERAMIC         C1608 CH 1H 03DC-T           C118         4030017970         S.CERAMIC         C1608 CH 1H 101J-T           C121         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C122         4030007130         S.CERAMIC         C1608 CH 1H 101J-T <td>C92</td> <td>4030006860</td> <td>S.CERAMIC</td> <td>C1608 JB 1H 102K-T</td>	C92	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C97         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C101         4510006670         S.CERAMIC         C1608 JB 1H 471K-T           C104         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C106         4030006880         S.CERAMIC         C1608 JB 1H 102K-T           C108         4030007960         S.CERAMIC         C1608 JB 1H 102K-T           C110         4030017960         S.CERAMIC         ERF22X 6C2H 330J D01L           C111         4030017970         S.CERAMIC         C1608 CH 1H 090D-T           C112         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C113         4030007900         S.CERAMIC         C1608 CH 1H 090D-T           C114         4030006930         S.CERAMIC         C1608 CH 1H 090D-T           C115         4030017970         S.CERAMIC         C1608 CH 1H 090D-T           C118         4030017380         S.CERAMIC         C1608 CH 1H 090D-T           C119         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C121         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C122         4030011180         S.CERAMIC         C1608 JB 1H 102K-T           C123         403001730	C93	4510006220		
C98         4030006850         S.CERAMIC         C1608 JB 1H 471K-T           C101         4510006670         S.ELECTROLYTIC ECEV1CA471P           C104         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C106         4030006880         S.CERAMIC         C1608 JB 1H 102K-T           C110         4030017960         S.CERAMIC         ER522X 6C2H 360J D01L           C111         4030017960         S.CERAMIC         ER522X 6C2H 360J D01L           C112         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C113         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C114         40300079700         S.CERAMIC         C1608 CH 1H 090D-T           C115         4030006940         S.CERAMIC         C1608 CH 1H 090D-T           C119         4030017380         S.CERAMIC         ER522X 6C2H 120J D01L           C119         4030017380         S.CERAMIC         ER522X 6C2H 160J D01L           C120         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C121         4030006860         S.CERAMIC         C1608 CH 1H 101J-T           C122         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C123         4030006860	C94			
C101				
C104         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C108         4030006880         S.CERAMIC         C1608 JB 1H 102K-T           C108         4030006880         S.CERAMIC         C1608 JB 1H 472K-T           C110         4030017960         S.CERAMIC         ERF22X 6C2H 330J D01L           C111         40300179700         S.CERAMIC         ERF22X 6C2H 360J D01L           C112         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C113         4030006930         S.CERAMIC         C1608 CH 1H 090D-T           C114         4030017970         S.CERAMIC         C1608 CH 1H 090D-T           C118         4030017970         S.CERAMIC         ERF22X 6C2H 120J D01L           C121         4030007130         S.CERAMIC         ERF22X 6C2H 560J D01L           C121         4030007140         S.CERAMIC         C1608 CH 1H 101J-T           C122         4030017940         S.CERAMIC         C1608 CH 1H 101J-T           C123         4030001860         S.CERAMIC         C1608 BJ H 102K-T           C124         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C125         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C129         403000686		1		
C106         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C108         4030006880         S.CERAMIC         C1608 JB 1H 472K-T           C110         4030017960         S.CERAMIC         ERF22X 6C2H 330J D01L           C111         4030007900         S.CERAMIC         ERF22X 6C2H 360J D01L           C112         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C113         4030006940         S.CERAMIC         C1608 CH 1H 090D-T           C115         4030017970         S.CERAMIC         C1608 CH 1H 020C-T           C119         4030017970         S.CERAMIC         C1608 CH 1H 030C-T           C119         4030017970         S.CERAMIC         ERF22X 6C2H 560J D01L           C120         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C121         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C122         403001180         S.CERAMIC         C1608 CH 1H 101J-T           C123         4030016860         S.CERAMIC         C1608 JB 1H 102K-T           C124         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C125         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C126         4030006860 <td></td> <td></td> <td></td> <td></td>				
C108         4030006880         S.CERAMIC         C1608 JB 1H 472K-T           C110         4030017960         S.CERAMIC         ERF22X 6C2H 330J D01L           C111         4030007900         S.CERAMIC         C1608 CH 1H 090D-T           C113         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C114         4030006930         S.CERAMIC         C1608 CH 1H 090D-T           C115         4030017970         S.CERAMIC         C1608 CH 1H 090D-T           C118         4030017970         S.CERAMIC         C1608 CH 1H 090D-T           C119         4030017970         S.CERAMIC         C1608 CH 1H 030C-T           C120         4030007130         S.CERAMIC         C1608 CH 1H 01J-T           C121         4030017940         S.CERAMIC         C1608 CH 1H 101J-T           C122         403001180         S.CERAMIC         C1608 JB 1H 102K-T           C123         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C124         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C125         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C128         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C130         4030006860				
C110         4030017960         S.CERAMIC         ERF22X 6C2H 330J D01L           C111         4030017950         S.CERAMIC         ERF22X 6C2H 360J D01L           C112         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C113         4030006940         S.CERAMIC         C1608 CH 1H 030C-T           C118         4030017880         S.CERAMIC         C1608 CH 1H 030C-T           C119         4030017880         S.CERAMIC         ERF22X 6C2H 120J D01L           C120         4030007130         S.CERAMIC         ERF22X 6C2H 120J D01L           C121         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C122         4030017940         S.CERAMIC         C1608 CH 1H 101J-T           C123         4030011180         S.CERAMIC         C1608 CH 1H 101J-T           C124         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C125         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C126         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C127         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C128         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C130         403000686				
C112         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C113         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C114         4030006930         S.CERAMIC         C1608 CH 1H 020C-T           C115         4030006940         S.CERAMIC         C1608 CH 1H 030C-T           C118         4030017970         S.CERAMIC         ERF22X 6C2H 120J D01L           C119         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C121         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C122         4030017940         S.CERAMIC         C1608 CH 1H 101J-T           C123         403001180         S.CERAMIC         C1608 CH 1H 101J-T           C124         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C125         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C126         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C127         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C128         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C130         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C131         4030007130	C110			
C113         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C115         4030006940         S.CERAMIC         C1608 CH 1H 030C-T           C118         4030017970         S.CERAMIC         C1608 CH 1H 030C-T           C119         4030017800         S.CERAMIC         ERF22X 6C2H 120J D01L           C120         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C121         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C122         4030017940         S.CERAMIC         C1608 CH 1H 101J-T           C123         403001180         S.CERAMIC         GRM31M2C2H220JV01L           C124         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C125         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C126         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C127         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C128         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C130         4030006860         S.CERAMIC         C1608 CH 1H 075C-T           C131         4030007130         S.CERAMIC         C1608 JB 1H 102K-T           C132         4030007130	C111			
C114         4030006940         S.CERAMIC         C1608 CH 1H 020C-T           C118         4030006940         S.CERAMIC         C1608 CH 1H 030C-T           C118         4030017970         S.CERAMIC         ERF22X 6C2H 120J D01L           C120         403007130         S.CERAMIC         ERF22X 6C2H 560J D01L           C121         4030017940         S.CERAMIC         C1608 CH 1H 101J-T           C122         4030017940         S.CERAMIC         C1608 CH 1H 101J-T           C123         4030017940         S.CERAMIC         ERF22X 6C2H 680J D01L           C124         403001860         S.CERAMIC         C1608 BH 1H 102K-T           C125         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C126         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C127         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C128         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C129         4030006860         S.CERAMIC         C1608 CH 1H 075C-T           C130         4030006910         S.CERAMIC         C1608 CH 1H 075C-T           C131         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C134         4030007130 <td>C112</td> <td>4030007000</td> <td>S.CERAMIC</td> <td></td>	C112	4030007000	S.CERAMIC	
C115         4030006940         S.CERAMIC         C1608 CH 1H 030C-T           C119         4030017970         S.CERAMIC         ERF22X 6C2H 120J D01L           C120         4030007130         S.CERAMIC         ERF22X 6C2H 560J D01L           C121         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C122         4030017940         S.CERAMIC         ERF22X 6C2H 680J D01L           C123         4030016860         S.CERAMIC         GRM31M2C2H220JV01L           C124         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C125         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C126         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C127         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C128         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C129         4030006860         S.CERAMIC         C1608 CH 1H 0R5C-T           C130         4030007130         S.CERAMIC         C1608 CH 1H 0R5C-T           C131         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C134         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C135         4030006860 </td <td></td> <td></td> <td></td> <td></td>				
C118         4030017970         S.CERAMIC         ERF22X 6C2H 120J D01L           C119         4030017880         S.CERAMIC         ERF22X 6C2H 160J D01L           C120         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C121         4030017940         S.CERAMIC         C1608 CH 1H 101J-T           C122         4030011180         S.CERAMIC         GRM31M2C2H220JV01L           C123         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C124         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C125         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C126         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C127         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C128         4030006860         S.CERAMIC         C1608 CH 1H 07SC-T           C130         4030006810         S.CERAMIC         C1608 CH 1H 104Z-T           C131         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C132         4030017190         S.CERAMIC         C1608 CH 1H 101J-T           C134         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C135         4030006860				
C119         4030017880         S.CERAMIC         ERF22X 6C2H 560J D01L           C120         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C121         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C122         4030017940         S.CERAMIC         ERF22X 6C2H 680J D01L           C123         4030011180         S.CERAMIC         GRM31M2C2H220JV01L           C124         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C125         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C126         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C127         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C129         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C130         4030006910         S.CERAMIC         C1608 CH 1H 0R5C-T           C131         4030006810         S.CERAMIC         C1608 CH 1H 0R5C-T           C132         4030017190         S.CERAMIC         C1608 CH 1H 101J-T           C134         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C135         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C137         4030006860		1		
C120         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C121         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C122         4030017940         S.CERAMIC         C1608 CH 1H 101J-T           C123         403001180         S.CERAMIC         GRM31M2C2H220JV01L           C124         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C125         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C126         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C127         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C128         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C129         4030006910         S.CERAMIC         C1608 JB 1H 102K-T           C130         4030006910         S.CERAMIC         C1608 CH 1H 0R5C-T           C131         4030007130         S.CERAMIC         C1608 CH 1H 01J-T           C134         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C135         4030006860         S.CERAMIC         C1608 CH 1H 101J-T           C136         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C137         4030006860				
C121         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C122         4030017940         S.CERAMIC         ERP22X 6C2H 680J D01L           C123         4030011180         S.CERAMIC         GRM31M2C2H220JV01L           C124         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C125         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C126         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C127         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C128         4030006910         S.CERAMIC         C1608 JB 1H 102K-T           C130         4030006910         S.CERAMIC         C1608 CH 1H 0R5C-T           C131         4030006910         S.CERAMIC         C1608 CH 1H 0R5C-T           C131         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C132         4030017190         S.CERAMIC         C1608 CH 1H 101J-T           C133         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C134         4030006860         S.CERAMIC         C1608 CH 1H 101J-T           C135         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C137         4030006860				
C122         4030017940         S.CERAMIC         ERF22X 6C2H 680J D01L           C123         4030011180         S.CERAMIC         GRM31M2C2H220JV01L           C124         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C125         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C126         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C127         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C128         4030006910         S.CERAMIC         C1608 JB 1H 102K-T           C130         4030006910         S.CERAMIC         C1608 CH 1H 0R5C-T           C131         4030006910         S.CERAMIC         C1608 CH 1H 0R5C-T           C131         4030006810         S.CERAMIC         C1608 CH 1H 0R5C-T           C132         4030017190         S.CERAMIC         GRM31BR32J471KY01L           C134         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C135         4030006860         S.CERAMIC         C1608 CH 1H 102K-T           C137         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C138         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C140         4030006860	C121			
C124         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C125         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C126         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C127         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C128         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C129         4030006910         S.CERAMIC         C1608 CH 1H 0R5C-T           C130         4030007190         S.CERAMIC         C1608 CH 1H 0R5C-T           C131         4030017190         S.CERAMIC         C1608 CH 1H 0R5C-T           C132         4030017190         S.CERAMIC         C1608 CH 1H 101J-T           C134         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C135         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C136         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C137         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C139         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C141         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C141         4030006860	C122		S.CERAMIC	ERF22X 6C2H 680J D01L
C125         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C126         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C127         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C128         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C129         4030006910         S.CERAMIC         C1608 CH 1H 0R5C-T           C130         4030007130         S.CERAMIC         C1608 CH 1H 0R5C-T           C131         4030007130         S.CERAMIC         C1608 CH 1H 104Z-T           C132         4030017190         S.CERAMIC         C1608 CH 1H 101J-T           C134         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C135         4030006860         S.CERAMIC         C1608 CH 1H 101J-T           C136         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C137         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C139         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C140         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C141         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C142         4030006860	C123	4030011180	S.CERAMIC	GRM31M2C2H220JV01L
C126         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C127         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C128         4030006800         S.CERAMIC         C1608 JB 1H 102K-T           C129         4030006910         S.CERAMIC         C1608 CH 1H 0R5C-T           C131         4030006910         S.CERAMIC         C1608 CH 1H 0R5C-T           C131         4030007130         S.CERAMIC         C1608 CH 1H 104Z-T           C132         4030017190         S.CERAMIC         GRM31BR32J471KY01L           C134         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C135         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C136         4030006860         S.CERAMIC         C1608 CH 1H 101J-T           C137         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C138         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C140         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C141         4030007130         S.CERAMIC         C1608 JB 1H 102K-T           C142         4030007130         S.CERAMIC         C1608 JB 1H 102K-T           C144         4030006860	C124			
C127         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C128         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C129         4030006910         S.CERAMIC         C1608 CH 1H 0R5C-T           C130         4030006910         S.CERAMIC         C1608 CH 1H 0R5C-T           C131         4030007130         S.CERAMIC         C1608 JF 1H 104Z-T           C132         4030007130         S.CERAMIC         GRM31BR32J471KY01L           C134         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C135         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C136         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C137         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C138         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C139         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C140         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C141         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C144         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C144         4030006860		1		
C128         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C129         4030006910         S.CERAMIC         C1608 CH 1H 0R5C-T           C130         4030006910         S.CERAMIC         C1608 CH 1H 0R5C-T           C131         4030006801         S.CERAMIC         C1608 JF 1H 104Z-T           C132         4030017130         S.CERAMIC         GRM31BR32J471KY01L           C134         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C135         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C136         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C137         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C138         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C139         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C140         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C141         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C141         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C144         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C144         4030006860		1		
C129         4030006910         S.CERAMIC         C1608 CH 1H 0R5C-T           C130         4030006910         S.CERAMIC         C1608 CH 1H 0R5C-T           C131         4030008630         S.CERAMIC         C1608 JB 1H 104Z-T           C132         4030017130         S.CERAMIC         GRM31BR32J471KY01L           C134         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C135         4030006860         S.CERAMIC         C1608 CH 1H 101J-T           C136         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C137         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C138         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C139         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C140         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C141         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C142         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C144         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C144         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C144         4030006860	-	1		
C130         4030006910         S.CERAMIC         C1608 CH 1H 0R5C-T           C131         4030008630         S.CERAMIC         C1608 JF 1H 104Z-T           C132         4030017190         S.CERAMIC         GRM31BR32J471KY01L           C134         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C135         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C136         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C137         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C139         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C140         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C140         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C141         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C141         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C142         4030007130         S.CERAMIC         C1608 JB 1H 102K-T           C144         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C144         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C146         4030006860		1		
C131         4030008630         S.CERAMIC         C1608 JF 1H 104Z-T           C132         4030017190         S.CERAMIC         GRM31BR32J471KY01L           C134         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C135         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C136         4030006860         S.CERAMIC         C1608 CH 1H 101J-T           C137         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C138         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C139         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C140         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C141         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C142         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C143         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C144         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C145         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C146         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C147         4030006860				
C132         4030017190         S.CERAMIC         GRM31BR32J471KY01L           C134         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C135         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C136         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C137         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C138         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C139         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C140         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C141         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C142         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C143         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C144         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C145         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C146         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C149         403001600         S.CERAMIC         C1608 JB 1H 102K-T           C153         4030007000	C131	1		
C135         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C136         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C137         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C138         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C139         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C140         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C141         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C142         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C144         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C147         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C149         403001600         S.CERAMIC         C1608 JB 1H 102K-T           C150         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C153         4030007000	C132	1		
C136         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C137         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C138         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C139         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C140         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C141         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C142         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C144         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C144         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C145         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C146         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C146         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C147         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C149         4030011600         S.CERAMIC         C1608 JB 1H 102K-T           C150         4030007000         S.CERAMIC         C1608 JB 1H 102K-T           C153         4030007000	C134	1		
C137         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C138         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C139         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C140         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C141         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C142         4030006860         S.CERAMIC         C1608 CH 1H 101J-T           C143         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C144         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C145         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C146         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C147         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C148         4030016800         S.CERAMIC         C1608 JB 1H 102K-T           C149         4030016800         S.CERAMIC         C1608 JB 1H 102K-T           C150         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C150         4030007000         S.CERAMIC         C1608 JB 1H 102K-T           C150         4030007000	C135			
C138         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C139         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C140         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C141         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C142         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C142         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C142         4030006860         S.CERAMIC         C1608 CH 1H 101J-T           C143         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C144         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C145         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C144         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C148         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C150         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C151         4030007000         S.CERAMIC         C1608 JB 1H 102K-T           C153         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C154         40300011120				
C139         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C140         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C141         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C142         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C142         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C143         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C144         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C145         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C146         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C148         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C149         4030011600         S.CERAMIC         C1608 JB 1H 102K-T           C150         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C153         4030007000         S.CERAMIC         C1608 JB 1H 102K-T           C154         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C154         40300011120         S.CERAMIC         C1608 CH 1H 300J-T           S.CERAMIC         C1608 CH 1H 300		1		
C140         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C141         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C142         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C143         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C144         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C145         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C146         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C147         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C149         4030011600         S.CERAMIC         C1608 JB 1H 102K-T           C150         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C150         4030007000         S.CERAMIC         C1608 JB 1H 102K-T           C153         4030007000         S.CERAMIC         C1608 JB 1H 102K-T           C154         4030007000         S.CERAMIC         C1608 JB 1H 102K-T           C154         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C155         4030011120         S.CERAMIC         C1608 CH 1H 300J-T           C157         4030006940		1		
C141         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C142         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C143         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C144         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C145         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C146         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C147         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C148         403001600         S.CERAMIC         C1608 JB 1H 102K-T           C150         4030001680         S.CERAMIC         C1608 JB 1H 102K-T           C153         4030007000         S.CERAMIC         C1608 JB 1H 102K-T           C153         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C154         4030007000         S.CERAMIC         C1608 CH 1H 300J-T           C155         4030011120         S.CERAMIC         C1608 CH 1H 300C-T           C158         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C159         4030007130         S.CERAMIC         C1608 CH 1H 101J-T				
C142         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C143         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C144         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C145         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C146         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C147         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C148         4030016800         S.CERAMIC         C1608 JB 1H 102K-T           C150         4030001600         S.CERAMIC         C1608 JB 1E 104K-T           C150         4030007000         S.CERAMIC         C1608 JB 1H 102K-T           C153         4030007000         S.CERAMIC         C1608 JB 1H 009D-T           C154         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C155         4030008560         S.CERAMIC         C1608 CH 1H 300J-T           C157         4030006940         S.CERAMIC         C1608 CH 1H 030C-T           C158         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C159         4030007130         S.CERAMIC         C1608 CH 1H 101J-T	C141	1		
C143         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C144         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C145         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C146         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C147         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C148         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C149         4030011600         S.CERAMIC         C1608 JB 1H 102K-T           C150         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C153         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C154         4030007000         S.CERAMIC         C1608 CH 1H 300J-T           C155         4030011120         S.CERAMIC         C1608 CH 1H 300J-T           C156         403001120         S.CERAMIC         C1608 CH 1H 030C-T           C158         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C159         4030007130         S.CERAMIC         C1608 CH 1H 101J-T	C142			
C145         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C146         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C147         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C148         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C149         4030011600         S.CERAMIC         C1608 JB 1H 102K-T           C150         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C153         4030007000         S.CERAMIC         C1608 JB 1H 102K-T           C154         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C155         4030007100         S.CERAMIC         C1608 CH 1H 300J-T           S.CERAMIC         C1608 CH 1H 300J-T         S.CERAMIC           C157         4030006940         S.CERAMIC         C1608 CH 1H 030C-T           C158         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C159         4030007130         S.CERAMIC         C1608 CH 1H 101J-T	C143			C1608 JB 1H 102K-T
C146         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C147         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C148         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C149         4030011600         S.CERAMIC         C1608 JB 1H 102K-T           C150         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C153         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C154         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C155         4030011120         S.CERAMIC         C1608 CH 1H 300J-T           C157         4030006940         S.CERAMIC         C1608 CH 1H 030C-T           C158         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C159         4030007130         S.CERAMIC         C1608 CH 1H 101J-T	C144			
C147         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C148         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C149         4030011600         S.CERAMIC         C1608 JB 1H 102K-T           C150         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C153         4030007000         S.CERAMIC         C1608 JB 1H 102K-T           C154         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C155         4030008560         S.CERAMIC         C1608 CH 1H 300J-T           C157         4030006940         S.CERAMIC         C1608 CH 1H 030C-T           C158         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C159         4030007130         S.CERAMIC         C1608 CH 1H 101J-T	C145	1		
C148         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C149         4030011600         S.CERAMIC         C1608 JB 1E 104K-T           C150         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C153         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C154         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C155         4030008560         S.CERAMIC         C1608 CH 1H 300J-T           C156         4030011120         S.CERAMIC         GRM31M2C2H100JV01L           C157         4030006940         S.CERAMIC         C1608 CH 1H 030C-T           C158         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C159         4030007130         S.CERAMIC         C1608 CH 1H 101J-T				
C149         4030011600         S.CERAMIC         C1608 JB 1E 104K-T           C150         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C153         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C154         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C155         4030008560         S.CERAMIC         C1608 CH 1H 300J-T           C156         4030011120         S.CERAMIC         GRM31M2C2H100JV01L           C157         4030006940         S.CERAMIC         C1608 CH 1H 030C-T           C158         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C159         4030007130         S.CERAMIC         C1608 CH 1H 101J-T		1		
C150         4030006860         S.CERAMIC         C1608 JB 1H 102K-T           C153         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C154         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C155         4030008560         S.CERAMIC         C1608 CH 1H 300J-T           C156         4030011120         S.CERAMIC         GRM31M2C2H100JV01L           C157         4030006940         S.CERAMIC         C1608 CH 1H 030C-T           C158         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C159         4030007130         S.CERAMIC         C1608 CH 1H 101J-T		1		
C153         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C154         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C155         4030008560         S.CERAMIC         C1608 CH 1H 300J-T           C156         4030011120         S.CERAMIC         GRM31M2C2H100JV01L           C157         4030006940         S.CERAMIC         C1608 CH 1H 030C-T           C158         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C159         4030007130         S.CERAMIC         C1608 CH 1H 101J-T				
C154         4030007000         S.CERAMIC         C1608 CH 1H 090D-T           C155         4030008560         S.CERAMIC         C1608 CH 1H 300J-T           C156         4030011120         S.CERAMIC         GRM31M2C2H100JV01L           C157         4030006940         S.CERAMIC         C1608 CH 1H 030C-T           C158         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C159         4030007130         S.CERAMIC         C1608 CH 1H 101J-T		1		
C155         4030008560         S.CERAMIC         C1608 CH 1H 300J-T           C156         4030011120         S.CERAMIC         GRM31M2C2H100JV01L           C157         4030006940         S.CERAMIC         C1608 CH 1H 030C-T           C158         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C159         4030007130         S.CERAMIC         C1608 CH 1H 101J-T				
C156         4030011120         S.CERAMIC         GRM31M2C2H100JV01L           C157         4030006940         S.CERAMIC         C1608 CH 1H 030C-T           C158         4030007130         S.CERAMIC         C1608 CH 1H 101J-T           C159         4030007130         S.CERAMIC         C1608 CH 1H 101J-T	C155	1		
C158	C156	1		
C159   4030007130   S.CERAMIC   C1608 CH 1H 101J-T	C157			
	C158			
C1608 JB 1H 102K-1		1		
	C160	4030006860	S.CEKAMIC	C 1008 JB TH 102K-1

#### **IMAIN UNITI**

#### ORDER REF **DESCRIPTION** NO. NO. C162 4030006860 S.CERAMIC C1608 JB 1H 102K-T C163 4030006860 S.CERAMIC C1608 JB 1H 102K-T C164 4030006860 S.CERAMIC C1608 JB 1H 102K-T C165 4030006910 S.CERAMIC C1608 CH 1H 0R5C-T C166 4030009470 S.CERAMIC C1608 CH 1H R75C-T C167 4030006860 S.CERAMIC C1608 JB 1H 102K-T C168 4030007130 S.CERAMIC C1608 CH 1H 101J-T C169 4030006940 S.CERAMIC C1608 CH 1H 030C-T C170 4030007130 S.CERAMIC C1608 CH 1H 101J-T C171 4030006860 S.CERAMIC C1608 JB 1H 102K-T C172 4030006860 S.CERAMIC C1608 JB 1H 102K-T C173 4030007010 S.CERAMIC C1608 CH 1H 100D-T C176 4030006860 S.CERAMIC C1608 JB 1H 102K-T C177 4030007130 S.CERAMIC C1608 CH 1H 101J-T C178 4030007130 S.CERAMIC C1608 CH 1H 101J-T C179 4030011120 S.CERAMIC GRM31M2C2H100JV01L C180 4030006940 S.CERAMIC C1608 CH 1H 030C-T C181 4030006940 S.CERAMIC C1608 CH 1H 030C-T C182 4030007000 S.CERAMIC C1608 CH 1H 090D-T C183 4030007000 S.CERAMIC C1608 CH 1H 090D-T C186 4030006860 S.CERAMIC C1608 JB 1H 102K-T C187 4030006860 S.CERAMIC C1608 JB 1H 102K-T C188 4030006860 S.CERAMIC C1608 JB 1H 102K-T C189 4030006860 S.CERAMIC C1608 JB 1H 102K-T C194 4030006860 S.CERAMIC C1608 JB 1H 102K-T C195 4030006860 S.CERAMIC C1608 JB 1H 102K-T C196 4030011120 S.CERAMIC GRM31M2C2H100JV01L [USA] 4030011130 S.CERAMIC GRM31M2C2H110JV01L [OTHER] C197 4030006970 S.CERAMIC C1608 CH 1H 060D-T C198 4030011180 S.CERAMIC GRM31M2C2H220JV01L C199 4030006950 S CERAMIC C1608 CH 1H 040C-T C202 4030006860 S.CERAMIC C1608 JB 1H 102K-T C203 4030006860 S.CERAMIC C1608 JB 1H 102K-T C205 4030011200 S.CERAMIC GRM31M2C2H300JV01L C206 4030011080 S.CERAMIC GRM31M2C2H6R0DV01L C207 4030006860 S CFRAMIC C1608 JB 1H 102K-T C208 4030006990 S.CERAMIC C1608 CH 1H 080D-T C209 4030011290 S.CERAMIC GRM31M2C2H240JV01L C210 4030011060 S.CERAMIC GRM31M2C2H4R0CY21L C211 4030006860 S CFRAMIC C1608 JB 1H 102K-T C212 4030006860 S CFRAMIC C1608 JB 1H 102K-T C213 4030011080 S.CERAMIC GRM31M2C2H6R0DV01L C214 4030006940 S.CERAMIC C1608 CH 1H 030C-T C215 4030007170 S CFRAMIC C1608 CH 1H 221,J-T C216 4030007070 S.CERAMIC C1608 CH 1H 330J-T C1608 JB 1F 104K-T C218 4030011600 S CFRAMIC C219 4030011600 S.CERAMIC C1608 JB 1E 104K-T S CERAMIC C220 4030006860 C1608 JB 1H 102K-T S.CERAMIC C222 4030006860 C1608 JB 1H 102K-T C223 4030006860 S CFRAMIC C1608 JB 1H 102K-T 4030006860 S CERAMIC C1608 JB 1H 102K-T C224 S.CERAMIC C225 4030006860 C1608 JB 1H 102K-T C226 4030006860 S CERAMIC C1608 JB 1H 102K-T 4030006860 S CERAMIC C1608 JB 1H 102K-T C227 4030006860 S CERAMIC C1608 JB 1H 102K-T C228 4030006860 S CFRAMIC C1608 JB 1H 102K-T C229 4030006860 S CERAMIC C230 C1608 JB 1H 102K-T 4030006860 S.CERAMIC C1608 JB 1H 102K-T C231 4030006860 S CERAMIC C1608 JB 1H 102K-T C232 C233 4030006860 S CERAMIC C1608 JB 1H 102K-T 4030006860 S.CERAMIC C1608 JB 1H 102K-T C234 4030006860 S CERAMIC C1608 JB 1H 102K-T C235 4030006860 S.CERAMIC C1608 JB 1H 102K-T C236 4030017190 S CERAMIC GRM31BR32J471KY01I C237 4030006860 S CERAMIC C1608 JB 1H 102K-T C238 4030006860 C239 S CERAMIC C1608 JB 1H 102K-T 4030006860 S.CERAMIC C1608 JB 1H 102K-T C240 4030006860 S.CERAMIC C1608 JB 1H 102K-T C241 4030017190 S CERAMIC GRM31BR32J471KY01I C242 C243 4030017190 S CFRAMIC GRM31BR32J471KY01I C1608 JB 1H 102K-T C244 4030006860 S.CERAMIC S.CERAMIC C1608 CH 1H 330J-T 4030007070 C245 4030007080 S.CERAMIC C1608 CH 1H 390J-T C246 C247 4030007070 S CERAMIC C1608 CH 1H 330J-T C249 4030011600 S CERAMIC C1608 JB 1F 104K-T S.CERAMIC C250 4030006860 C1608 JB 1H 102K-T 4030006920 C251 S.CERAMIC C1608 CH 1H 010C-T 4030011600 C252 S.CERAMIC C1608 JB 1E 104K-T C253 4030006860 S CERAMIC C1608 JB 1H 102K-T C262 4030011180 S.CERAMIC GRM31M2C2H220JV01L GRM31M2C2H150JV01L 4030011160 S.CERAMIC C263 C264 4030011160 S.CERAMIC GRM31M2C2H150JV01L

#### [MAIN UNIT]

REF	ORDER		
NO.	NO.		DESCRIPTION
C265	4030011730	S.CERAMIC	GRM31M2C2H101JV01L
C266 C267	4030006920 4030006920	S.CERAMIC S.CERAMIC	C1608 CH 1H 010C-T C1608 CH 1H 010C-T
C267	4030006920	S.CERAMIC	C1608 CH 1H 010C-1
C269	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C270	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C271 C272	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 JB 1H 102K-T
C273	4030006980	S.CERAMIC	C1608 CH 1H 070D-T
C274	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C275 C276	4030006980	S.CERAMIC S.CERAMIC	C1608 CH 1H 070D-T C1608 CH 1H 0R3B-T
C276	4030009570 4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C278	4030006920	S.CERAMIC	C1608 CH 1H 010C-T
C279	4030009540	S.CERAMIC	C1608 CH 1H 1R5B-T
C280 C286	4030009350 4030006860	S.CERAMIC S.CERAMIC	C1608 CH 1H 3R5B-T C1608 JB 1H 102K-T
C287	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C288	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C289 C290	4030006860 4030017930	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T ERA21B 6C2D 390J D01L
C290	4030017930	S.CERAMIC	ERA21B 6C2D 390J D01L
C292	4030007170	S.CERAMIC	C1608 CH 1H 221J-T
C293	4030007170	S.CERAMIC	C1608 CH 1H 221J-T
C297 C298	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 JB 1H 102K-T
C299	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C301	4030007090	S.CERAMIC	C1608 CH 1H 470J-T
C302	4030007090 4030006870	S.CERAMIC	C1608 CH 1H 470J-T
C1004 C1005	4030006870	S.CERAMIC S.CERAMIC	C1608 JB 1H 222K-T C1608 JB 1H 222K-T
C1006	4030008900	S.CERAMIC	C1608 JB 1H 333K-T
C1007	4030008770	S.CERAMIC	C1608 JB 1H 562K-T
C1008 C1009	4030008920 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 473K-T C1608 JB 1H 102K-T
C1009	4030008880	S.CERAMIC	C1608 JB 1H 102K-1
C1011	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C1012	4030008880	S.CERAMIC	C1608 JB 1H 223K-T
C1015 C1016	4030012660 4030007160	S.CERAMIC S.CERAMIC	C1608 JB 1E 683K-T C1608 CH 1H 181J-T
C1017	4030012660	S.CERAMIC	C1608 JB 1E 683K-T
C1018	4510004440		ECEV1HA010SR
C1019 C1020	4030010770 4030010770	S.CERAMIC S.CERAMIC	C1608 JB 1H 392K-T C1608 JB 1H 392K-T
C1020	4030009970	S.CERAMIC	C1608 JB 1H 182K-T
C1022	4030009970	S.CERAMIC	C1608 JB 1H 182K-T
C1023 C1024	4550006250	S.TANTALUM S.CERAMIC	TEMSVA 1A 106M-8L C1608 JB 1H 103K-T
C1024	4030006900	S.CERAMIC	C1608 JB 1H 103K-T
C1026	4030009970	S.CERAMIC	C1608 JB 1H 182K-T
C1027	4030006900	S.CERAMIC	C1608 JB 1H 103K-T
C1028 C1029	4030009970 4030008860	S.CERAMIC S.CERAMIC	C1608 JB 1H 182K-T C1608 JB 1H 153K-T
C1030	4030008860	S.CERAMIC	C1608 JB 1H 153K-T
C1032	4030008630	S.CERAMIC	C1608 JF 1H 104Z-T
C1033	4030008900	S.CERAMIC	C1608 JB 1H 333K-T
C1034 C1035	4510004630 4030008900	S.ELECTROLYTIC S.CERAMIC	ECEV1CA100SR C1608 JB 1H 333K-T
C1036	4030010770	S.CERAMIC	C1608 JB 1H 392K-T
C1037	4030006900	S.CERAMIC	C1608 JB 1H 103K-T
C1038 C1039	4030009880 4030011330	S.CERAMIC S.CERAMIC	C1608 JB 1H 682K-T C1608 CH 1H 391J-T
C1039	4030071330	S.CERAMIC	C1608 CH 1H 820J-T
C1041	4030009880	S.CERAMIC	C1608 JB 1H 682K-T
C1042 C1043	4030007110	S.CERAMIC S.CERAMIC	C1608 CH 1H 680J-T C1608 JB 1H 333K-T
C1043	4030008900 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 333K-1
C1045	4030008900	S.CERAMIC	C1608 JB 1H 333K-T
C1046	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C1047 C1048	4030008900 4030007120	S.CERAMIC S.CERAMIC	C1608 JB 1H 333K-T C1608 CH 1H 820J-T
C1048	4030007120	S.CERAMIC	C1608 JB 1H 153K-T
C1050	4030008860	S.CERAMIC	C1608 JB 1H 153K-T
C1051	4030007080	S.CERAMIC	C1608 CH 1H 390J-T
C1052 C1053	4030006900 4030006900	S.CERAMIC S.CERAMIC	C1608 JB 1H 103K-T C1608 JB 1H 103K-T
C1053	4030006900	S.CERAMIC	C1608 JB 1H 103K-T
C1055	4030007130	S.CERAMIC	C1608 CH 1H 101J-T
C1057 C1058	4030006900 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 103K-T C1608 JB 1H 102K-T
C1058	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-1
C1061	4030008880	S.CERAMIC	C1608 JB 1H 223K-T
	-		S =Surface mount

#### **IMAIN UNIT**

#### REF ORDER **DESCRIPTION** NO. NO. C1062 4550003220 S.TANTALUM TEMSVA 1E 105M-8L C1063 4030006860 S.CERAMIC C1608 JB 1H 102K-T S.CERAMIC C1608 JB 1H 103K-T C1065 4030006900 4030006960 S.CERAMIC C1608 CH 1H 050C-T C1066 4030006900 S.CERAMIC C1608 JB 1H 103K-T C1067 C1068 4030006900 S.CERAMIC C1608 JB 1H 103K-T 4030006850 S.CERAMIC C1608 JB 1H 471K-T C1069 C1072 4030006860 S.CERAMIC C1608 JB 1H 102K-T C1073 4030006860 S.CERAMIC C1608 JB 1H 102K-T C1075 4030007130 S.CERAMIC C1608 CH 1H 101J-T C1076 4030008630 S.CERAMIC C1608 JF 1H 104Z-T C1078 4030006860 S.CERAMIC C1608 JB 1H 102K-T C1080 4030006900 S.CERAMIC C1608 JB 1H 103K-T C1081 4030008630 S.CERAMIC C1608 JF 1H 104Z-T C1083 4550006480 S.TANTALUM TEMSVA 1C 475M-8L C1084 4030006860 S.CERAMIC C1608 JB 1H 102K-T C1085 4030006860 S.CERAMIC C1608 JB 1H 102K-T C1087 4030017480 S.CERAMIC C1608 JB 1A 474K-T C1089 4030007090 S.CERAMIC C1608 CH 1H 470J-T C1090 4030006900 S.CERAMIC C1608 JB 1H 103K-T C1095 4030008630 S.CERAMIC C1608 JF 1H 104Z-T C1096 4030007050 S.CERAMIC C1608 CH 1H 220J-T C1097 4030007010 S.CERAMIC C1608 CH 1H 100D-T C1099 4030008630 S.CERAMIC C1608 JF 1H 104Z-T C1100 4030006860 S.CERAMIC C1608 JB 1H 102K-T C1101 4030006850 S.CERAMIC C1608 JB 1H 471K-T C1102 4030006850 S.CERAMIC C1608 JB 1H 471K-T C1103 4030008630 S.CERAMIC C1608 JF 1H 104Z-T C1108 4030007120 S.CERAMIC C1608 CH 1H 820J-T C1110 4030008920 S.CERAMIC C1608 JB 1H 473K-T C1111 4030008630 S.CERAMIC C1608 JF 1H 104Z-T C1112 4550006050 S.TANTALUM TEMSVA 0J 106M8L C1113 4030008920 S.CERAMIC C1608 JB 1H 473K-T C1118 4550000550 S.TANTALUM TESVA 1V 224M1-8L C1119 4550006250 S TANTAL UM TEMSVA 1A 106M-8L C1120 4030006900 S CFRAMIC C1608 JB 1H 103K-T C1122 4030006850 S.CERAMIC C1608 JB 1H 471K-T C1124 4550000540 S.TANTALUM TESVA 1V 154M1-8L C1125 4550006210 S.TANTALUM FCST1CX106R C1127 4030006860 S CFRAMIC C1608 JB 1H 102K-T C1130 4030008630 S CFRAMIC C1608 JF 1H 104Z-T C1131 4030006860 S.CERAMIC C1608 JB 1H 102K-T C1133 4550006480 S.TANTALUM TEMSVA 1C 475M-8L C1134 4030006860 S CFRAMIC C1608 JB 1H 102K-T C1135 4030006860 S CFRAMIC C1608 JB 1H 102K-T C1136 4030017480 S CFRAMIC C1608 JB 1A 474K-T C1138 4030006900 S.CERAMIC C1608 JB 1H 103K-T C1143 4030007050 S.CERAMIC C1608 CH 1H 220J-T C1144 4030007010 S CERAMIC C1608 CH 1H 100D-T C1145 4030006860 S CFRAMIC C1608 JB 1H 102K-T 4030008630 S CERAMIC C1608 JF 1H 1047-T C1146 C1148 4030007120 S.CERAMIC C1608 CH 1H 820.I-T C1149 4030011600 S CERAMIC C1608 JB 1F 104K-T C1151 4030008920 S CFRAMIC C1608 JB 1H 473K-T C1153 4030006860 S CFRAMIC C1608 JB 1H 102K-T C1157 S CFRAMIC 4030009570 C1608 CH 1H 0R3B-T C1162 4030008630 S CERAMIC C1608 JF 1H 1047-T S.CERAMIC C1608 CH 1H 470J-T C1163 4030007090 S TANTAL UM TEMSVA 0.J 106M8I C1166 4550006050 C1168 4030006860 S CFRAMIC C1608 JB 1H 102K-T 4030006860 C1169 S CFRAMIC C1608 JB 1H 102K-T 4030006900 S CERAMIC C1608 JB 1H 103K-T C1170 4030007080 S.CERAMIC C1608 CH 1H 390J-T C1173 S CERAMIC C1608 CH 1H 040C-T C1174 4030006950 C1175 4030007010 S CFRAMIC C1608 CH 1H 100D-T C1176 4030007060 S CFRAMIC C1608 CH 1H 270,J-T 4030007020 S.CERAMIC C1608 CH 1H 120J-T C1177 S.CERAMIC 4030007020 C1608 CH 1H 120J-T C1178 C1180 4030006860 S CFRAMIC C1608 JB 1H 102K-T C1181 4030006860 S CFRAMIC C1608 JB 1H 102K-T 4030006860 S.CERAMIC C1608 JB 1H 102K-T C1182 S.CERAMIC 4030006860 C1608 JB 1H 102K-T C1183 4030006860 S.CERAMIC C1608 JB 1H 102K-T C1184 C1185 4030006860 S CFRAMIC C1608 JB 1H 102K-T 4030006920 S CERAMIC C1608 CH 1H 010C-T C1186 S.CERAMIC C1187 4030006910 C1608 CH 1H 0R5C-T 4030006860 S.CERAMIC C1608 JB 1H 102K-T C1188 C1189 4030006860 S.CERAMIC C1608 JB 1H 102K-T 4030006860 S CERAMIC C1608 JB 1H 102K-T C1190 4030007090 S.CERAMIC C1192 C1608 CH 1H 470J-T 4030006860 S.CERAMIC C1608 JB 1H 102K-T C1193 C1194 4030006860 S.CERAMIC C1608 JB 1H 102K-T

# [MAIN UNIT]

[MAIN	I UNIT]		
REF	ORDER		DESCRIPTION
NO.	NO.		
C1195 C1197	4030006860 4030006900	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 JB 1H 103K-T
C1197	4030006900	S.CERAMIC	C1608 JB 1H 103K-T
C1200	4030007050	S.CERAMIC	C1608 CH 1H 220J-T
C1201	4030006950	S.CERAMIC	C1608 CH 1H 040C-T
C1202	4030009550	S.CERAMIC	C1608 CH 1H 2R5B-T
C1203 C1204	4030009500 4030009500	S.CERAMIC S.CERAMIC	C1608 CH 1H 0R5B-T C1608 CH 1H 0R5B-T
C1204	4030009510	S.CERAMIC	C1608 CH 1H 010B-T
C1207	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C1208	4030006950	S.CERAMIC	C1608 CH 1H 040C-T
C1210	4030006860	S.CERAMIC	C1608 JB 1H 102K-T C1608 CH 1H 0R5C-T
C1212 C1213	4030006910 4030006910	S.CERAMIC S.CERAMIC	C1608 CH 1H 0R5C-1
C1218	4030006990	S.CERAMIC	C1608 CH 1H 080D-T
C1239	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C1240	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C1244 C1248	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 JB 1H 102K-T
C1249	4030007030	S.CERAMIC	C1608 CH 1H 150J-T
C1250	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C1251	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C1252	4030009540	S.CERAMIC	C1608 CH 1H 1R5B-T
C1253 C1254	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 JB 1H 102K-T
C1255	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C1258	4030006990	S.CERAMIC	C1608 CH 1H 080D-T
C1259	4030006950	S.CERAMIC	C1608 CH 1H 040C-T
C1260 C1263	4030006970 4030006950	S.CERAMIC S.CERAMIC	C1608 CH 1H 060D-T C1608 CH 1H 040C-T
C1265	4030006940	S.CERAMIC	C1608 CH 1H 030C-T
C1266	4030006940	S.CERAMIC	C1608 CH 1H 030C-T
C1271	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
C1272 C1274	4030011600	S.CERAMIC S.CERAMIC	C1608 JB 1E 104K-T C1608 JB 1E 104K-T
C1274	4030011600 4510004630		ECEV1CA100SR
C1279	4030008900	S.CERAMIC	C1608 JB 1H 333K-T
C1280	4030008900	S.CERAMIC	C1608 JB 1H 333K-T
C1281	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C1285 C1286	4030011600 4030006920	S.CERAMIC S.CERAMIC	C1608 JB 1E 104K-T C1608 CH 1H 010C-T
C1289	4030007030	S.CERAMIC	C1608 CH 1H 150J-T
C1290	4030006980	S.CERAMIC	C1608 CH 1H 070D-T
C1291	4030006980	S.CERAMIC	C1608 CH 1H 070D-T
C1292 C1294	4030007030 4030006900	S.CERAMIC S.CERAMIC	C1608 CH 1H 150J-T C1608 JB 1H 103K-T
C1295	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C1296	4030006900	S.CERAMIC	C1608 JB 1H 103K-T
C1297	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C1304 C2000	4030007060 4510006020	S.CERAMIC ELECTROLYTIC	C1608 CH 1H 270J-T
C2000	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C2002	4030007090	S.CERAMIC	C1608 CH 1H 470J-T
C2003	4030012610	S.CERAMIC	C2012 JB 1C 474K-T
C2004 C2005	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 JB 1H 102K-T
C2005	4030006860 4030011600	S.CERAMIC	C1608 JB 1H 102K-1
C2007	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C2008	4030007090	S.CERAMIC	C1608 CH 1H 470J-T
C2009	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C2010 C2011	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 JB 1H 102K-T
C2011	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
C2014	4030012610	S.CERAMIC	C2012 JB 1C 474K-T
C2015	4550006210	S.TANTALUM	ECST1CX106R
C2016 C2017	4030007090 4030011600	S.CERAMIC S.CERAMIC	C1608 CH 1H 470J-T C1608 JB 1E 104K-T
C2017 C2018	4550006210	S.TANTALUM	ECST1CX106R
C2019	4550006210	S.TANTALUM	ECST1CX106R
C2020	4030006900	S.CERAMIC	C1608 JB 1H 103K-T
C2021	4030011600	S.CERAMIC	C1608 JB 1E 104K-T C1608 JB 1H 332K-T
C2022 C2024	4030008650 4030011600	S.CERAMIC S.CERAMIC	C1608 JB 1H 332K-1 C1608 JB 1E 104K-T
C2025	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
C2026	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C2027	4030012610	S.CERAMIC	C2012 JB 1C 474K-T
C2028 C2029	4030006860 4510005600	S.CERAMIC	C1608 JB 1H 102K-T ECEV1CS100SR
	4030012610	S.CERAMIC	C2012 JB 1C 474K-T
C2031			
C2031 C2032	4030012610	S.CERAMIC	C2012 JB 1C 474K-T
		S.CERAMIC	C2012 JB 1C 474K-T C1608 JB 1H 471K-T ECEV1CA470SP

#### ORDER REF **DESCRIPTION** NO. NO. C2037 4030006860 S.CERAMIC C1608 JB 1H 102K-T C2038 4510006240 S.ELECTROLYTIC ECEV1CA221P 4510006260 S.ELECTROLYTIC ECEV1AA471UP C2039 C2040 4510006220 S.ELECTROLYTIC ECEV1CA101UP 4510004640 S.ELECTROLYTIC ECEV1CA470SP C2041 C2042 4030011600 S.CERAMIC C1608 JB 1E 104K-T 4510006260 S.ELECTROLYTIC ECEV1AA471UP C2043 C2044 4030011600 S.CERAMIC C1608 JB 1E 104K-T C2046 4510006220 S.ELECTROLYTIC ECEV1CA101UP C2047 4510006240 S.ELECTROLYTIC ECEV1CA221P C2049 4030011600 S.CERAMIC C1608 JB 1E 104K-T C2051 4510004630 S.ELECTROLYTIC ECEV1CA100SR C2052 4030007050 S.CERAMIC C1608 CH 1H 220J-T C2053 4030006950 S.CERAMIC C1608 CH 1H 040C-T C2055 4030006860 S.CERAMIC C1608 JB 1H 102K-T C2057 4030007110 S.CERAMIC C1608 CH 1H 680J-T C2058 4030011600 S.CERAMIC C1608 JB 1E 104K-T C2059 4030011600 S.CERAMIC C1608 JB 1E 104K-T C2060 4030011600 S.CERAMIC C1608 JB 1E 104K-T C2061 4510004630 S.ELECTROLYTIC ECEV1CA100SR C2062 4510004630 | S.ELECTROLYTIC ECEV1CA100SR C2063 4510004630 S.ELECTROLYTIC ECEV1CA100SR C2064 4030008680 S.CERAMIC C2012 JF 1C 105Z-T C2012 JF 1C 105Z-T C2065 4030008680 S.CERAMIC C2066 4510004630 S.ELECTROLYTIC ECEV1CA100SR C2067 4030007090 S.CERAMIC C1608 CH 1H 470J-T C2068 4030007090 S.CERAMIC C1608 CH 1H 470J-T C2069 4030007090 S.CERAMIC C1608 CH 1H 470J-T C2070 4030007090 S.CERAMIC C1608 CH 1H 470J-T C2072 4030011600 S.CERAMIC C1608 JB 1E 104K-T C2073 4030011600 S CERAMIC C1608 JB 1E 104K-T C2074 4030006860 S.CERAMIC C1608 JB 1H 102K-T C2075 4030007090 S.CERAMIC C1608 CH 1H 470J-T C2076 4030011600 S.CERAMIC C1608 JB 1E 104K-T C2077 4030008900 S.CERAMIC C1608 JB 1H 333K-T C2078 4030006860 S CFRAMIC C1608 JB 1H 102K-T C2079 4030009590 S.CERAMIC C2012 JF 1C 225Z-T C2081 4030011600 S.CERAMIC C1608 JB 1E 104K-T C2012 JF 1C 105Z-T C2012 JF 1C 105Z-T C2082 4030008680 S.CERAMIC C2083 4030008680 S CFRAMIC C2012 JF 1C 105Z-T C2084 4030008680 S CFRAMIC C2085 4030008680 S.CERAMIC C2012 JF 1C 105Z-T C2086 4550006760 S.TANTALUM TEMSVB2 1A 336M-8R C2088 4030006860 S CFRAMIC C1608 JB 1H 102K-T C2094 4030012600 S CFRAMIC C2012 JB 1A 105M-T C2095 4030006860 S CERAMIC C1608 JB 1H 102K-T C2096 4030006860 S.CERAMIC C1608 JB 1H 102K-T C2097 4030009350 S CERAMIC C1608 CH 1H 3R5B-T C2098 4030006960 S CERAMIC C1608 CH 1H 050C-T C2099 4030006940 S CFRAMIC C1608 CH 1H 030C-T 4030006860 S CERAMIC C2100 C1608 JB 1H 102K-T C2101 4030006910 S.CERAMIC C1608 CH 1H 0R5C-T C2102 4030006950 S CERAMIC C1608 CH 1H 040C-T C2103 4030006860 S CFRAMIC C1608 JB 1H 102K-T C2104 4030007000 S CFRAMIC C1608 CH 1H 090D-T S CFRAMIC C2105 4030006860 C1608 JB 1H 102K-T C2106 4030006910 S CERAMIC C1608 CH 1H 0R5C-T 4030006940 S.CERAMIC C2107 C1608 CH 1H 030C-T 4030006860 S CERAMIC C2108 C1608 JB 1H 102K-T C2109 4030006860 S CFRAMIC C1608 JB 1H 102K-T 4030009550 S CERAMIC C2110 C1608 CH 1H 2R5B-T 4030006860 S CERAMIC C2111 C1608 JB 1H 102K-T 4030006910 S.CERAMIC C1608 CH 1H 0R5C-T C2112 4030009350 S CERAMIC C2113 C1608 CH 1H 3R5B-T 4030006860 S CERAMIC C2114 C1608 JB 1H 102K-T C2115 4030006990 S CFRAMIC C1608 CH 1H 080D-T C2116 4030006860 S.CERAMIC C1608 JB 1H 102K-T 4030006910 S.CERAMIC C1608 CH 1H 0R5C-T C2117 4030009550 S CERAMIC C2118 C1608 CH 1H 2R5B-T C2119 4030006860 S CFRAMIC C1608 JB 1H 102K-T 4030006940 S.CERAMIC C1608 CH 1H 030C-T C2120 4030006940 S.CERAMIC C2121 C1608 CH 1H 030C-T 4030006860 S.CERAMIC C1608 JB 1H 102K-T C2122 4030006860 S CFRAMIC C1608 JB 1H 102K-T C2123 C2124 4030006860 S CERAMIC C1608 JB 1H 102K-T 4030011180 S.CERAMIC GRM31M2C2H220JV01L C2125 C2126 4030011210 S.CERAMIC GRM31M2C2H330JV01L C2127 4030006860 S.CERAMIC C1608 JB 1H 102K-T C2128 4030007170 S CERAMIC C1608 CH 1H 221,J-T 4030007170 C2129 S.CERAMIC C1608 CH 1H 221J-T 4030006860 S.CERAMIC C2130 C1608 JB 1H 102K-T C1608 JB 1H 102K-T C2131 4030006860 S.CERAMIC

#### [MAIN UNIT]

_	ONIT		
REF NO.	ORDER NO.		DESCRIPTION
C2132	4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T GRM31BR32J102KY01L
C2133 C2134	4030017200 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T
C2135	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C2136	4030007070	S.CERAMIC	C1608 CH 1H 330J-T
C2137	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C2138	4030007070	S.CERAMIC	C1608 CH 1H 330J-T
C2139 C2140	4030006860 4030006950	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 CH 1H 040C-T
C2141	4030006930	S.CERAMIC	C1608 CH 1H 020C-T
C2142	4030006960	S.CERAMIC	C1608 CH 1H 050C-T
C2143	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C2144 C2145	4030006950	S.CERAMIC	C1608 CH 1H 040C-T C1608 JB 1H 102K-T
C2145	4030006860 4030006940	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-1 C1608 CH 1H 030C-T
C2147	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C2148	4030006920	S.CERAMIC	C1608 CH 1H 010C-T
C2149	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C2150 C2151	4030006860 4030006970	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 CH 1H 060D-T
C2152	4030006920	S.CERAMIC	C1608 CH 1H 010C-T
C2153	4030006960	S.CERAMIC	C1608 CH 1H 050C-T
C2154	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C2155	4030010780	S.CERAMIC	C1608 CH 1H 1R5C-T
C2156 C2157	4030006860 4030009510	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 CH 1H 010B-T
C2157	4030009510	S.CERAMIC	C1608 JB 1H 471K-T
C2159	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C2160	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C2161	4030006860	S.CERAMIC	C1608 JB 1H 102K-T C1608 JB 1H 102K-T
C2162 C2164	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-1
C2165	4030007130	S.CERAMIC	C1608 CH 1H 101J-T
C2166	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
C2167	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
C2168 C2169	4030007070 4030006860	S.CERAMIC S.CERAMIC	C1608 CH 1H 330J-T C1608 JB 1H 102K-T
C2170	4030007070	S.CERAMIC	C1608 CH 1H 330J-T
C2171	4030007090	S.CERAMIC	C1608 CH 1H 470J-T
C2172	4030006850	S.CERAMIC	C1608 JB 1H 471K-T
C2176	4030006900	S.CERAMIC	C1608 JB 1H 103K-T
C2180 C2181	4030006940 4030006940	S.CERAMIC S.CERAMIC	C1608 CH 1H 030C-T C1608 CH 1H 030C-T
C2182	4550006250	S.TANTALUM	TEMSVA 1A 106M-8L
C2183	4030006980	S.CERAMIC	C1608 CH 1H 070D-T
C2184	4030006980	S.CERAMIC	C1608 CH 1H 070D-T
C2185 C2186	4030008910 4030008910	S.CERAMIC S.CERAMIC	C1608 JB 1H 393K-T C1608 JB 1H 393K-T
C2187	4030006910	S.CERAMIC	C1608 JB 1E 104K-T
C2188	4030012600	S.CERAMIC	C2012 JB 1A 105M-T
C2190	4510005860		ECEV1HA2R2SR
C2191	4030008650	S.CERAMIC	C1608 JB 1H 332K-T
C2192 C2193	4030006900 4030008880	S.CERAMIC S.CERAMIC	C1608 JB 1H 103K-T C1608 JB 1H 223K-T
C2193	4030008880	S.CERAMIC S.CERAMIC	C1608 JB 1H 223K-1 C1608 CH 1H 470J-T
C2195	4030007090	S.CERAMIC	C1608 CH 1H 470J-T
C2196	4030007090	S.CERAMIC	C1608 CH 1H 470J-T
C2197 C2198	4030007090 4030007090	S.CERAMIC S.CERAMIC	C1608 CH 1H 470J-T C1608 CH 1H 470J-T
C2198	4550006210	S.TANTALUM	ECST1CX106R
C2200	4030006900	S.CERAMIC	C1608 JB 1H 103K-T
C2203	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C2204	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C2205 C2206	4030006860 4030007040	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 CH 1H 180J-T
C2207	4030007040	S.CERAMIC	C1608 JB 1H 102K-T
C2208	4030011810	S.CERAMIC	C1608 JB 1A 224K-T
C2209	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C2210 C2211	4030006860 4030006920	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 CH 1H 010C-T
C2211	4030006920	S.CERAMIC S.CERAMIC	C1608 CH 1H 010C-1
C2213	4030007090	S.CERAMIC	C1608 CH 1H 470J-T
C2214	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C2215	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C2216 C2217	4030011600 4030006900	S.CERAMIC S.CERAMIC	C1608 JB 1E 104K-T C1608 JB 1H 103K-T
C2217	4030006900	S.CERAMIC S.CERAMIC	C1608 JB 1H 103K-1 C1608 JB 1H 472K-T
C2219	4030006880	S.CERAMIC	C1608 JB 1H 472K-T
1			
RL1	6330001700	RELAY	ATQ209
L			

#### ORDER REF **DESCRIPTION** NO. NO. J1 6510014960 S.CONNECTOR B2B-ZR-SM3-TF J2001 6510023110 CONNECTOR 3008L-8P8C J2003 6510023160 CONNECTOR DN-508B-6 J2004 6450002220 CONNECTOR PJ-0008P-5 J2005 6450001440 CONNECTOR HSJ1403-01-010 J2006 6510023170 CONNECTOR 3008L-6P6C J2007 6510014960 S.CONNECTOR B2B-ZR-SM3-TF W2 8900010980 CABLE OPC-1131 W2001 7030000010 S.JUMPER MCR10EZHJ JPW (000) W2002 7030003860 S.JUMPER ERJ3GE JPW V W2003 7030003860 S.JUMPER ERJ3GE JPW V W2005 7030003860 S.JUMPER ERJ3GE JPW V W2008 7030008240 S.JUMPER ERJ12YJ0R00U W2010 7030008240 S.JUMPER ERJ12YJ0R00U W2011 7030000010 S.JUMPER MCR10EZHJ JPW (000) W2012 7030008240 S.JUMPER ERJ12YJ0R00U W2013 7030003860 S.JUMPER ERJ3GE JPW V W2014 7030003860 S.JUMPER ERJ3GE JPW V W2015 7120000470 JUMPER ERDS2T0 W2016 7030003860 S.JUMPER ERJ3GE JPW V W2017 7030000010 S.JUMPER MCR10EZHJ JPW (000) MCR10EZHJ JPW (000) W2018 7030000010 S.JUMPER W2019 7030000010 S.JUMPER MCR10EZHJ JPW (000) W2020 7030003860 S.JUMPER ERJ3GE JPW V ERJ3GE JPW V W2021 7030003860 S.JUMPER W2022 7030003860 S.JUMPER ERJ3GE JPW V W2023 7030003860 S.JUMPER ERJ3GE JPW V ERJ3GE JPW V W2024 7030003860 S.JUMPER ERJ3GE JPW V W2025 7030003860 S.JUMPER W2026 7030003860 S.JUMPER ERJ3GE JPW V W2027 7030003860 S.JUMPER ERJ3GE JPW V ERJ3GE JPW V W2028 7030003860 S.JUMPER ERJ3GE JPW V W2029 7030003860 S.JUMPER W2030 7030003860 S.JUMPER FRJ3GF JPW V W2031 7030003860 S.JUMPER ERJ3GE JPW V ERJ3GE JPW V W2032 7030003860 S.JUMPER MCR10EZHJ JPW (000) W2033 7030000010 S.JUMPER W2034 7030003860 S.JUMPER FRJ3GF JPW V FRJ3GF JPW V W2035 7030003860 S.JUMPER ERJ3GE JPW V W2036 7030003860 S.JUMPER ERJ12YJ0R00U W2037 | 7030008240 | S.JUMPER FP1 6910012350 S.BEAD MMZ1608Y 102BT EP2 6910012350 S.BEAD MMZ1608Y 102BT MMZ1608Y 102BT FP2000 6910012350 SBEAD MMZ1608Y 102BT FP2001 6910012350 S BEAD FP2002 6910012350 MMZ1608Y 102BT SBEAD EP2003 6910012350 S BEAD MMZ1608Y 102BT MMZ1608Y 102BT EP2004 6910012350 S.BEAD MMZ1608Y 102BT EP2005 6910012350 S BEAD MMZ1608Y 102BT EP2006 6910012350 SBEAD MMZ1608Y 102BT EP2007 6910012350 S BEAD MMZ1608Y 102BT FP2008 6910012350 SBEAD MMZ1608Y 102BT EP2010 6910012350 S.BEAD MMZ1608Y 102BT EP2011 6910012350 S.BEAD MMZ1608Y 102BT FP2012 6910012350 S BEAD MMZ1608Y 102BT FP2013 6910012350 SBEAD MMZ1608Y 102BT FP2014 6910012350 S BEAD FP2015 6910012350 MMZ1608Y 102BT SBEAD EP2018 0910054984 PCB B 5766D FP2019 6910012350 S BEAD MMZ1608Y 102BT FSRH090160RN000B FP2020 6910000640 BEAD FSRH090160RN000B FP2021 6910000640 BEAD EP2022 6910012350 S.BEAD MMZ1608Y 102BT MMZ1608Y 102BT EP2023 6910012350 S.BEAD MMZ1608Y 102BT EP2024 6910012350 S BEAD

# [VCO UNIT]

[VCO	UNIT]		
REF NO.	ORDER NO.		DESCRIPTION
IC1 IC2 IC3	1140005990 1130004200 1110004460	S.IC S.IC S.IC	MB15A02PFV1-G-BND-ER TC4S66F (TE85R) μPB1509GV-E1
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10	1530002560 1510000770 1530002690 1590000430 1590001320 1530003580 1530003580 1530003580 1590000440	S.TRANSISTOR S.TRANSISTOR S.TRANSISTOR S.TRANSISTOR S.TRANSISTOR S.TRANSISTOR S.TRANSISTOR S.TRANSISTOR S.TRANSISTOR	2SA1586-GR (TE85R) 2SC4116-GR (TE85R) DTC144EUA T106 DTC143ZUA T106 2SC5231C8-TL 2SC5231C8-TL
D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16	1750000770 1750000370 1750000370 1720000790 1720000790 17200001260 1790001260 1790001260 1790001260 1790001260 1790001260 1790001620 1790001620 1790001250 1790001260	S.DIODE S.VARICAP S.VARICAP S.VARICAP S.DIODE	HVC376BTRF DA221 TL HVC321B1TRF HVC321B1TRF HVC321B1TRF MA2S077-(TX) SV308 (TPL3) 1SV308 (TPL3) MA2S111-(TX) MA2S077-(TX) MA2S077-(TX)
X1	6050011320	S.XTAL	CR-718 (12.8 MHz)
L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14	6200006670 6200002610 6200010310 6200010310 6200007610 6200007690 6200007540 6200007540 6200007590 6200007590 6200003540 6200006670 6200006670	S.COIL S.COIL S.COIL S.COIL S.COIL S.COIL S.COIL S.COIL S.COIL S.COIL S.COIL	ELJRE 68NG-F NL 252018T-R47J C2012C-27NG C2012C-27NG LL1608-FH39NJ LL1608-FH39NJ ELJRE R10G-F LL1608-FH10NJ LL1608-FH39NJ ELJRE 56NG-F LL1608-FH27NJ MLF1608D R22K-T ELJRE 68NG-F ELJRE 68NG-F
R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R22 R23 R24 R22 R23 R24 R25 R26 R27 R28	7030003560 7030003440 7030003440 7030003600 7030003560 7030003360 7030003360 7030003340 7030003240 7030003560 7030003560 7030003560 7030003560 7030003560 7030003560 7030003500 703000340 7030003450 7030003450 7030003450 7030003450 7030003450 7030003450 7030003450 7030003450 7030003450 7030003450 7030003450 7030003450 7030003450 7030003450 7030003450 7030003450 7030003450	S.RESISTOR	ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 331 V (330 Ω) ERJ3GEYJ 104 V (100 kΩ) ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 103 V (22 kΩ) ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 223 V (22 kΩ) ERJ3GEYJ 221 V (220 Ω) ERJ3GEYJ 223 V (22 kΩ) ERJ3GEYJ 161 V (150 Ω) ERJ3GEYJ 103 V (10 kΩ) ERJ3GEYJ 101 V (100 Ω) ERJ3GEYJ 332 V (3.3 kΩ) ERJ3GEYJ 322 V (1.2 kΩ) ERJ3GEYJ 102 V (1.2 kΩ) ERJ3GEYJ 122 V (1.2 kΩ) ERJ3GEYJ 122 V (1.2 kΩ) ERJ3GEYJ 102 V (1 kΩ) ERJ3GEYJ 122 V (22 kΩ) ERJ3GEYJ 1225 V (2.2 MΩ) ERJ3GEYJ 225 V (2.2 MΩ) ERJ3GEYJ 225 V (2.2 MΩ)

#### **IVCO UNITI**

#### REF ORDER **DESCRIPTION** NO. NO. R29 7030003640 S.RESISTOR ERJ3GEYJ 473 V (47 kΩ) R30 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R31 R32 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R33 7030003210 S.RESISTOR ERJ3GEYJ 120 V (12 Ω) R34 7030003280 S.RESISTOR ERJ3GEYJ 470 V (47 Ω) 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R35 R36 7030003430 S.RESISTOR ERJ3GEYJ 821 V (820 Ω) R37 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R38 7030003210 S.RESISTOR ERJ3GEYJ 120 V (12 Ω) R39 7030003330 S.RESISTOR ERJ3GEYJ 121 V (120 Ω) R40 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R41 7030003480 S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) R42 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R43 7030003470 S.RESISTOR ERJ3GEYJ 182 V (1.8 kΩ) R44 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R45 7030003320 S.RESISTOR ERJ3GEYJ 101 V (100 Ω) R46 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R47 7030003470 S.RESISTOR ERJ3GEYJ 182 V (1.8 kΩ) R48 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R49 7030003480 S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) R50 7030003460 S.RESISTOR ERJ3GEYJ 152 V (1.5 kΩ) R51 7030004050 S.RESISTOR ERJ3GEYJ 1R0 V (1 $\Omega$ ) R52 7030003520 S.RESISTOR ERJ3GEYJ 472 V (4.7 kΩ) R53 7030003330 S.RESISTOR ERJ3GEYJ 121 V (120 Ω) R54 7030003480 S.RESISTOR ERJ3GEYJ 222 V (2.2 kΩ) R55 7030003560 S.RESISTOR ERJ3GEYJ 103 V (10 kΩ) R56 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R57 7030003260 S.RESISTOR ERJ3GEYJ 330 V (33 Ω) **R58** 7030003250 S.RESISTOR ERJ3GEYJ 270 V (27 Ω) R59 7030003250 S.RESISTOR ERJ3GEYJ 270 V (27 Ω) R60 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R61 7030003440 S.RESISTOR ERJ3GEYJ 102 V (1 kΩ) R62 7030003340 S.RESISTOR ERJ3GEYJ 151 V (150 Ω) R63 7030003840 S.RESISTOR ERJ3GEYJ 225 V (2.2 M $\Omega$ ) 4030007090 S.CERAMIC C1608 CH 1H 470J-T C1 C2 4030006860 S.CERAMIC C1608 JB 1H 102K-T C3 C4 4030006860 S CFRAMIC C1608 JB 1H 102K-T 4030007090 S CERAMIC C1608 CH 1H 470J-T C5 4030006860 S.CERAMIC C1608 JB 1H 102K-T C6 4030006860 S.CERAMIC C1608 JB 1H 102K-T C7 4030006860 S.CERAMIC C1608 JB 1H 102K-T C8 4030007090 S.CERAMIC C1608 CH 1H 470J-T C9 4030007090 S CFRAMIC C1608 CH 1H 470J-T C10 4030006860 S.CERAMIC C1608 JB 1H 102K-T C11 4030006860 S.CERAMIC C1608 JB 1H 102K-T C12 4030006860 S.CERAMIC C1608 JB 1H 102K-T C13 C14 4030006900 S CERAMIC C1608 JB 1H 103K-T 4030006920 S CERAMIC C1608 CH 1H 010C-T C15 C16 4030006860 S.CERAMIC C1608 JB 1H 102K-T 4030007100 S CERAMIC C1608 CH 1H 560.I-T C17 4030006950 S.CERAMIC C1608 CH 1H 040C-T C18 4030017810 S CERAMIC C1608 CH 1H 102J-T C19 4030007060 S CERAMIC C1608 CH 1H 270,I-T C20 4030008630 S.CERAMIC C1608 JF 1H 1047-T C21 4030007010 S.CERAMIC C1608 CH 1H 100D-T 4030007010 S.CERAMIC C22 C1608 CH 1H 100D-T C23 4030006850 S CFRAMIC C1608 JB 1H 471K-T C24 4030008630 S CERAMIC C1608 JF 1H 1047-T 4030008920 S CERAMIC C1608 JB 1H 473K-T C25 C26 4550000550 S.TANTALUM TESVA 1V 224M1-8L 4030006860 S CERAMIC C27 C1608 JB 1H 102K-T 4550002980 S TANTALUM C28 TEMSVA 1C 225M-8I TESVA 1V 104M1-8L C29 4550000530 S TANTAL UM C1608 JB 1E 104K-T C30 4030011600 S.CERAMIC S.CERAMIC C31 4030006860 C1608 JB 1H 102K-T C32 4030006860 S CERAMIC C1608 JB 1H 102K-T C33 4030006860 S CFRAMIC C1608 JB 1H 102K-T C34 4030009570 S.CERAMIC C1608 CH 1H 0R3B-T S.CERAMIC C35 4030006860 C1608 JB 1H 102K-T 4030006860 S.CERAMIC C1608 JB 1H 102K-T C36 C37 4030007020 S CERAMIC C1608 CH 1H 120J-T C38 4030007050 S CERAMIC C1608 CH 1H 220J-T S.CERAMIC C39 4030007040 C1608 CH 1H 180J-T 4030006920 S.CERAMIC C40 C1608 CH 1H 010C-T 4030006860 C41 S.CERAMIC C1608 JB 1H 102K-T C42 4030006860 S CERAMIC C1608 JB 1H 102K-T 4030006860 C43 S.CERAMIC C1608 JB 1H 102K-T 4030006860 S.CERAMIC C1608 JB 1H 102K-T C44 C45 4030006970 S.CERAMIC C1608 CH 1H 060D-T

# [VCO UNIT]

[VCO	UNIT]		
REF	ORDER		DESCRIPTION
NO.	NO.		DESCRIPTION
C46	4030007020	S.CERAMIC	C1608 CH 1H 120J-T
C47 C48	4030007030 4030007040	S.CERAMIC S.CERAMIC	C1608 CH 1H 150J-T C1608 CH 1H 180J-T
C49	4030007040	S.CERAMIC	C1608 CH 1H 1803-1 C1608 CH 1H 080D-T
C50	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C51	4030006920	S.CERAMIC	C1608 CH 1H 010C-T
C52	4030006970	S.CERAMIC	C1608 CH 1H 060D-T
C53 C54	4030007060 4030006970	S.CERAMIC S.CERAMIC	C1608 CH 1H 270J-T C1608 CH 1H 060D-T
C55	4030000970	S.CERAMIC	C1608 CH 1H 220J-T
C56	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C57	4030006970	S.CERAMIC	C1608 CH 1H 060D-T
C58 C59	4030006980	S.CERAMIC S.CERAMIC	C1608 CH 1H 070D-T C1608 CH 1H 180J-T
C60	4030007040 4030006910	S.CERAMIC	C1608 CH 1H 1803-1 C1608 CH 1H 0R5C-T
C61	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C62	4030006950	S.CERAMIC	C1608 CH 1H 040C-T
C63	4030007030	S.CERAMIC	C1608 CH 1H 150J-T
C64 C65	4030006860 4030006980	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 CH 1H 070D-T
C66	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C67	4030007040	S.CERAMIC	C1608 CH 1H 180J-T
C68	4030007090	S.CERAMIC	C1608 CH 1H 470J-T
C69	4030006990	S.CERAMIC S.CERAMIC	C1608 CH 1H 080D-T
C70 C71	4030006860 4030006920	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 CH 1H 010C-T
C72	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C73	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C74	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C75 C76	4030006860 4030007090	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 CH 1H 470J-T
C77	4030007090	S.CERAMIC	C1608 CH 1H 4703-1 C1608 JB 1H 471K-T
C78	4030011600	S.CERAMIC	C1608 JB 1E 104K-T
C79	4030007050	S.CERAMIC	C1608 CH 1H 220J-T
C80	4030006940	S.CERAMIC	C1608 CH 1H 030C-T
C81 C82	4030006860 4030006860	S.CERAMIC S.CERAMIC	C1608 JB 1H 102K-T C1608 JB 1H 102K-T
C83	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C84	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C85	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C86	4030006860	S.CERAMIC	C1608 JB 1H 102K-T
C87 C88	4030007060 4030007100	S.CERAMIC S.CERAMIC	C1608 CH 1H 270J-T C1608 CH 1H 560J-T
C89	4030007060	S.CERAMIC	C1608 CH 1H 270J-T
	6510023410	CONNECTOR	IMS A 0240D 4 067472 T
J1 J2	6510023410	CONNECTOR	IMSA-9210B-1-06Z172-T IMSA-9210B-1-03Z172-T
J3	6510023400	CONNECTOR	IMSA-9210B-1-03Z172-T
J4	6510023400	CONNECTOR	IMSA-9210B-1-03Z172-T
J5	6510023410	CONNECTOR	IMSA-9210B-1-06Z172-T
$I_{W1}$	7030003860	S.JUMPER	ERJ3GE JPW V
W2	7030003860	S.JUMPER	ERJ3GE JPW V
W3	7030003860	S.JUMPER	ERJ3GE JPW V
W4	7030003860	S.JUMPER	ERJ3GE JPW V
EP1	0910055402	PCB	B 5844B
ĺ			
L	ļ		S _Surface mount

# SECTION 6 MECHANICAL PARTS AND DISASSEMBLY

## [CHASSIS PARTS]

REF. NO.	ORDER NO.	DESCRIPTION	QTY.
J1	6510004880	Connector MR-DS-E 01	1
SP1	2510001160	Speaker 057P0802	1
MF1	2710000730	Fan AD0412HB-G70 (TS)	1
MP1	8010018850	2493 chassis	1
MP2	8110007720	2493 cover	1
MP3	8930057750	2493 SP holder	1
MP4	8110005750	1729 fan cover	1
MP5	8930044761	2055 SP net-1	1
MP7	8810009610	Screw FH M2.6 × 6 ZK	8
MP8	8810008660	Screw PH BT M3 × 8 NI-ZU	12
MP9	8810008660	Screw PH BT M3 × 8 NI-ZU	2
MP10	8810008490	Setscrew H M2.6 × 8 NI	2
MP11	8810009110	Screw PH M2.6 × 16 ZK	4
MP12	8930054560	Thermally sheet (T)	1
MP13	8930054560	Thermally sheet (T)	1
MP15	8930057800	2493 clip	1
MP16	8810008660	Screw BT M3 × 8 NI-ZU	2
MP17	8810009130	Screw BT M3 × 12 NI-ZU	4
MP18	8930058940	2493 spring	1
MP19	8930049780	Sponge (GG)	1
WS1	8600036880	SP cable	1

# [CONTROL UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	QTY.
J1	6510023110	Connector 3008L-8P8C	1
J2	6510023170	Connector 3008L-6P6C	1
R1	7210002920	Variable resistor EVU-F2AF20B55	1
R3	7210002920	Variable resistor EVU-F2AF20B55	1
R5	7210002920	Variable resistor EVU-F2AF20B55	1
R7	7210002920	Variable resistor EVU-F2AF20B55	1
DS19	5030002210	LCD L1-0500TAM	1
S1	2250000460	Encoder EVQ-VENF0224B	1
S2	2250000460	Encoder EVQ-VENF0224B	1
EP15	8930057510	LCD contact SRCN-2493-SP-N-W	1
MP1	8210018540	2493 front panel	1
MP2	8210018550	2493 rear panel	1
MP3	8210018560	2493 reflector	1
MP4	8610011160	Knob N289	2
MP5	8610011170	Knob N290	4
MP6	8930056990	2493 3-key	1
MP7	8930057010	2493 L-key	1
MP8	8930057000	2493 R-key	1
MP9	8930057740	2493 LCD filter	1
MP10	8930057080	2493 LCD plate	1
MP11	8810009220	Screw B0 M2 × 8 ZK	4
MP13	8930059030	Copper sheet (O)	1

# [VCO UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	QTY.
MP1	8510013740	2372 VCO case	1
MP2	8510013750	2372 VCO cover	1
MP3	8510014800	2493 VCO case	1
MP4	8510014810	2493 VCO cover	1

# [MAIN UNIT]

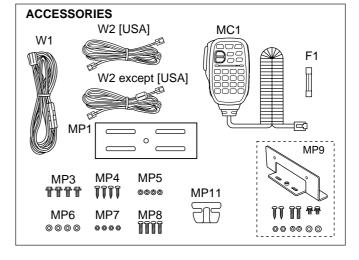
REF. NO.	ORDER NO.	DESCRIPTION	QTY.
J2001	6510023110	Connector 3008L-8P8C	1
J2003	6510023160	Connector DN-508B-6	1
J2004	6450002220	Connector PJ-0008P-5	1
J2005	6450001440	Connector HSJ1403-01-010	1
J2006	6510023170	Connector 3008L-6P6C	1
W2	8900010980	Cable OPC-1131	1
MP1	8410002380	2399 heatsink	1
MP2	8510014760	2493 PLL case	1
MP3	8510014750	2493 PLL cover	1
MP4	8510014490	2493 shield plate	1
MP5	8930058180	2493 ANT plate	1
MP6	8510015040	2493 V-LPF case assembly	1
MP8	8510014990	2493 U-LPF case	1
MP9	8510015030	2469 PA shield plate	1
MP10	8930059040	Insulate sheet HK	
MP11	8510015000	2493 A-shield plate	
MP12	8510015050	2493 TR cover assembly	
MP14	8930058500	Insulate sheet HB	

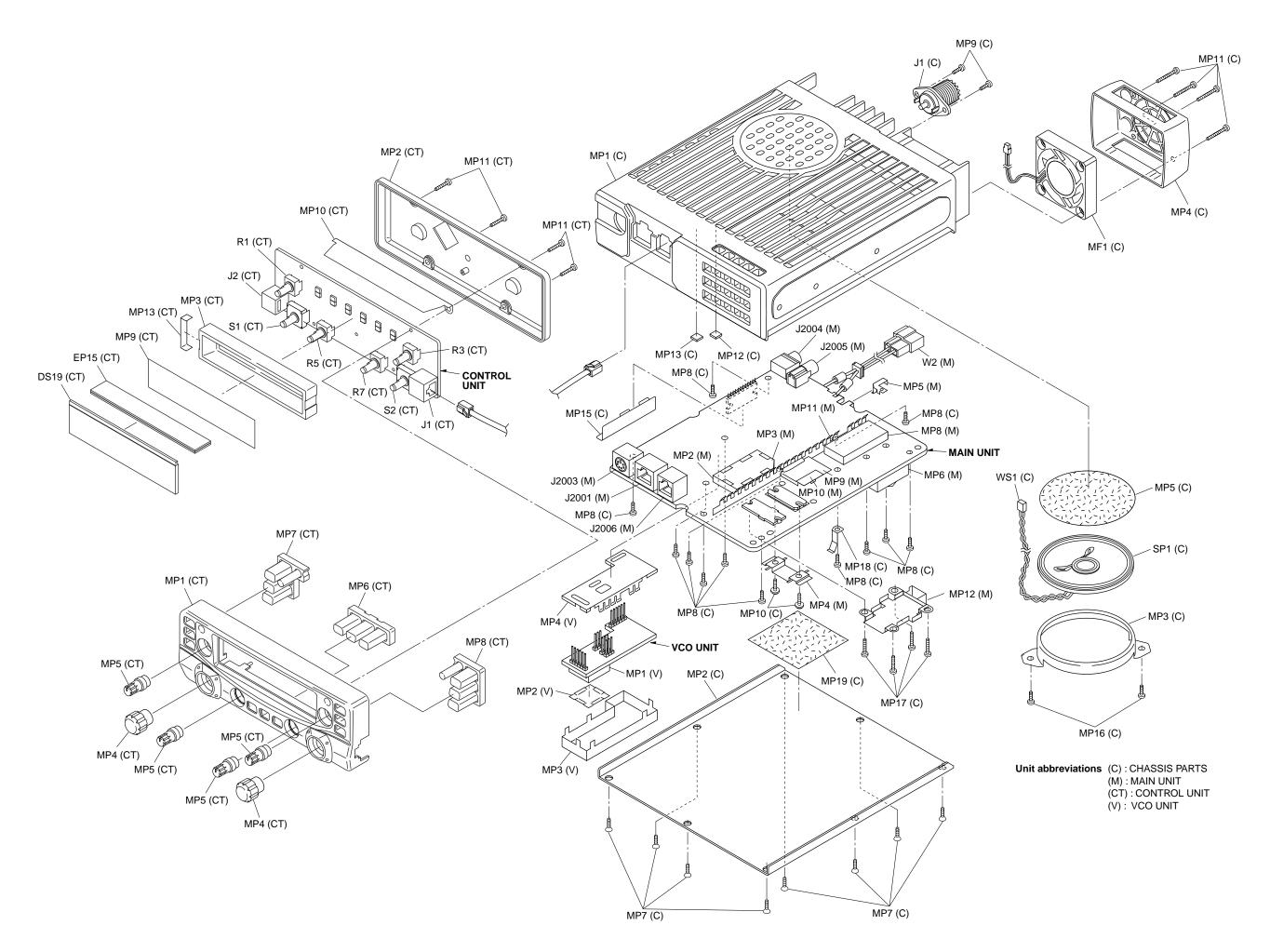
# [ACCESSORIES]

REF. NO.	ORDER NO.	DESCRIPTION	
F1	5210000080	Fuse FGB 20A (FGB0 125V)	1
MC1	0880000980	Microphone HM-133	1
W1	8900010990	Cable OPC-1132	1
W2	8900011290	Cable OPC-1155 [USA]	1
	8900011280	Cable OPC-1154 except [USA]	1
MP1	8010016381	1542 mobil bracket (B)-1	1
MP3	8820000530	Flange bolt M4 × 8 NI	4
MP4	8810000950	Screw PH A M5 × 16	4
MP5	8850000390	Spring washer M5	4
MP6	8850000150	Flat washer M5 NI BS	4
MP7	8830000120	Nut M5	4
MP8	8810000470	Screw PH M5 × 12 (+-)	4
MP9	0880001210	Bracket MB-84	1
MP11	8930007300	Mic hanger	1

Screw abbreviations BT: Self-tapping PH: Pan head ZK: Black FT: Flat head

NI: Nickel NI-ZU: Nickel-Zinc





# **SECTION 7 SEMI-CONDUCTOR INFORMATION**

# • TRANSSISTORS AND FET'S

2SA1586 GR (Symbol: SG)	2SA1588 GR (Symbol: ZG)	<b>2SB1132 T100 R</b> (Symbol: BAR)	2SC4116 BL (Symbol: LL)	2SC4116 GR (Symbol: LG)
В	В	C E	B C C	В
2SC4213 B (Symbol: AB)	2SC4215 Y (Symbol: QY)	<b>2SC4226 T1 R25</b> (Symbol: R25)	<b>2SC4403 3 TL</b> (Symbol: LY3)	2SC4406 (Symbol: JT)
B	В	B C	В	В
<b>2SC5006 T1</b> (Symbol: 24)	2SC5231 C8 (Symbol: C8)	2SC5624 (Symbol: VH-)	2SJ144 GR (Symbol: VG)	2SK2854 (Symbol: UP)
B C	В	E B C E	S G	G S S S S
<b>2SK3075</b> (Symbol: UB F)	<b>2SK3475</b> (Symbol: WB)	<b>35K272</b> (Symbol: K)	3SK274 (Symbol: UN)	<b>3SK320</b> (Symbol: U7)
G	S	G1 S	G1 S G2 D	G1 S
DTA114YUA (Symbol: 54)	<b>DTA143ZUA T106</b> (Symbol: 113)	<b>DTA144EUA T106</b> (Symbol: 16)	DTC143ZUA (Symbol: E23)	DTC144EUA T106 (Symbol: 26_)
B C	B C	B C	B C C	B C
DTC144TU T106 (Symbol: 06)	RD70HVF (Symbol: RD70HVF1)	XP4213 (Symbol: 8S)	XP4601 (Symbol: 5C)	XP6501 AB (Symbol: 5N)
B	s c le	E1	E1 C1 B1 B2 C2 E2	E1 C1 E2 B1 B2 C2

# • DIODES

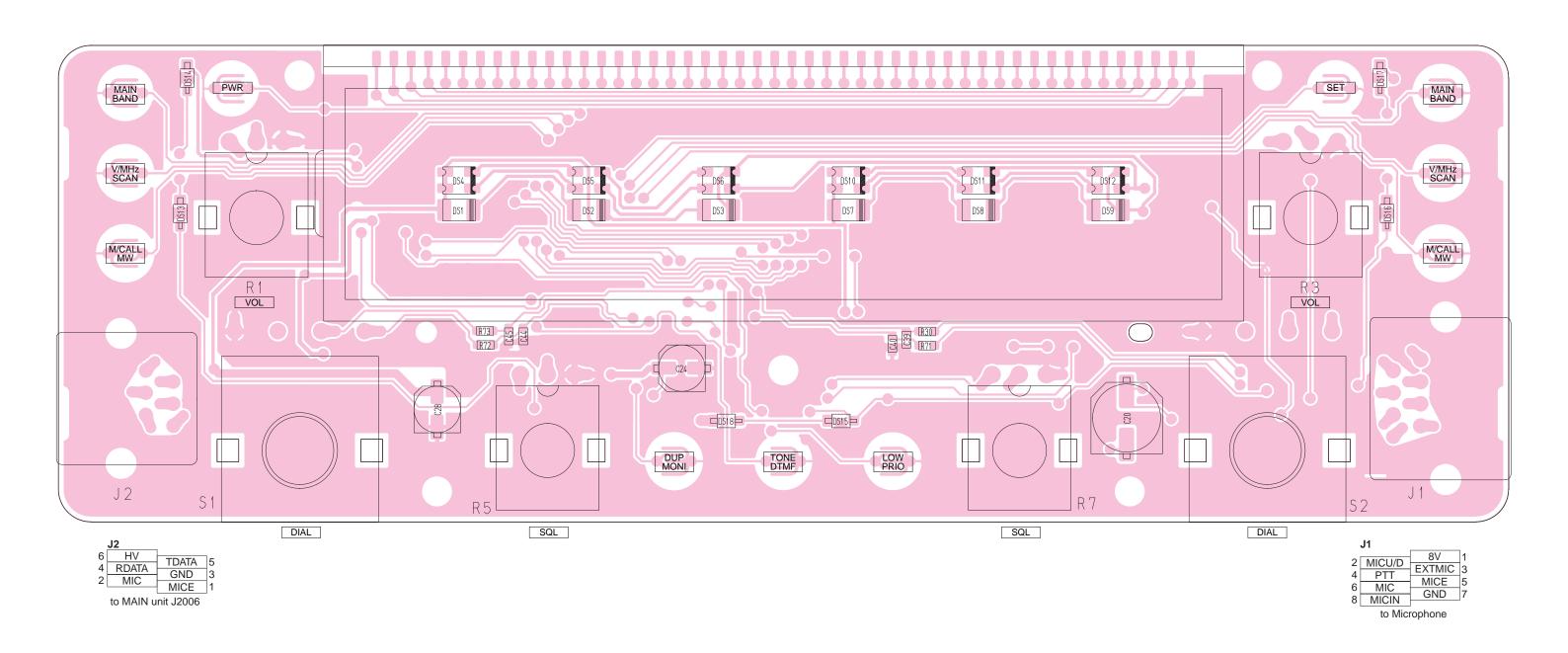
<b>1SS355</b> (Symbol: A)	1SV172 (Symbol: BE)	1SV308 (Symbol: TX)	DA221 TL (Symbol: K)	DAN222TL (Symbol: N)
A□□□□c →H		A DC		A1 C
DAP222 TL (Symbol: P)	DSA3A1 (Color: Green)	HVC321B (Symbol: V8)	HVC350B (Symbol: B0)	HVC362 (Symbol: V2)
C1 A	green	A□□□□C ──¥	A □ □ □ C □ □ C	A□ □□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
HVC375B (Symbol: B8)	HVC376B (Symbol: B9)	MA2S077 (Symbol: S)	MA2S111 (Symbol: A)	MA2S728 (Symbol: B)
A □ □ □ □ C □ → H □	A □ □ □ □ C □ → H □	A □ □ □ C □ □ C	A □ □ □ □ C □ ■ ■ □ □ □ □ □ □ □ □ □ □ □ □	A□□□□C □→□□
MA742 (Symbol: M1U)	MA8047 M (Symbol: 4-7)	MA8062 L (Symbol: 6_2)	MA8091 M (Symbol: 9-1)	<b>RD20E B2</b> (Symbol: 20 B2)
	A DC	A□□□□c <del>→H</del>	A □ □ □ □ C □ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	ACTIC
UM9401F (Symbol: none)	UM9957F/TR			
A C	AC			

7 - 1

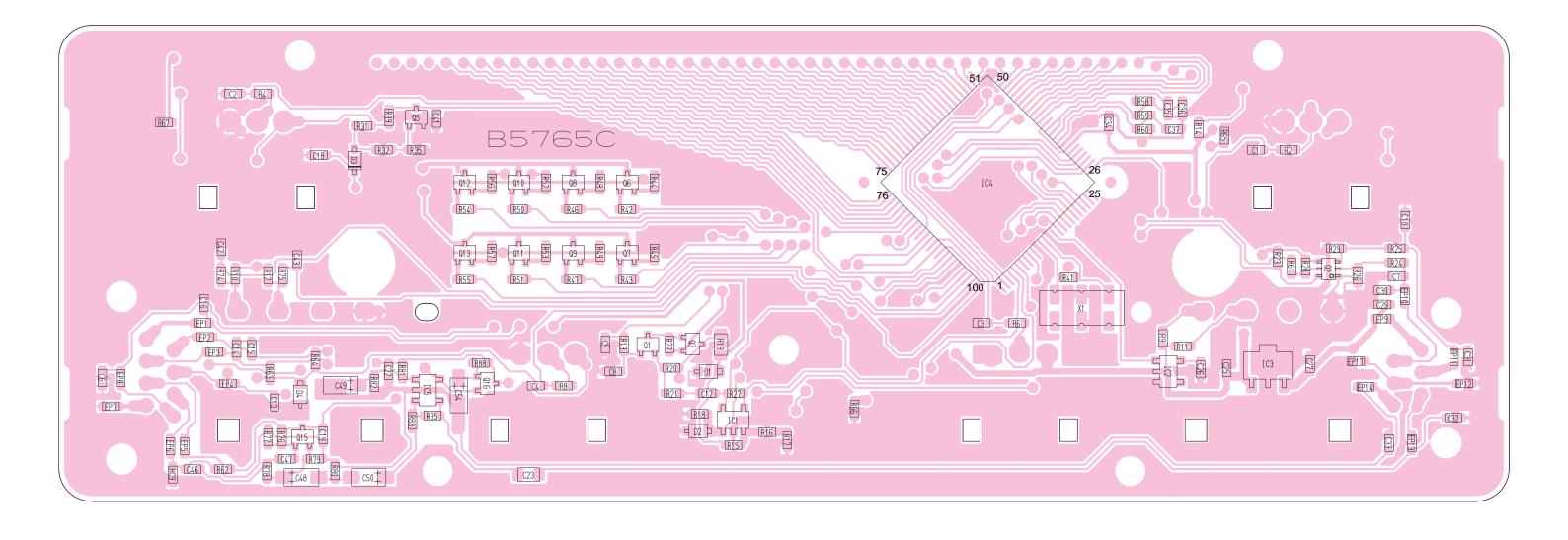
# **SECTION 8** BOARD LAYOUTS

# **8-1 CONTROL UNIT**

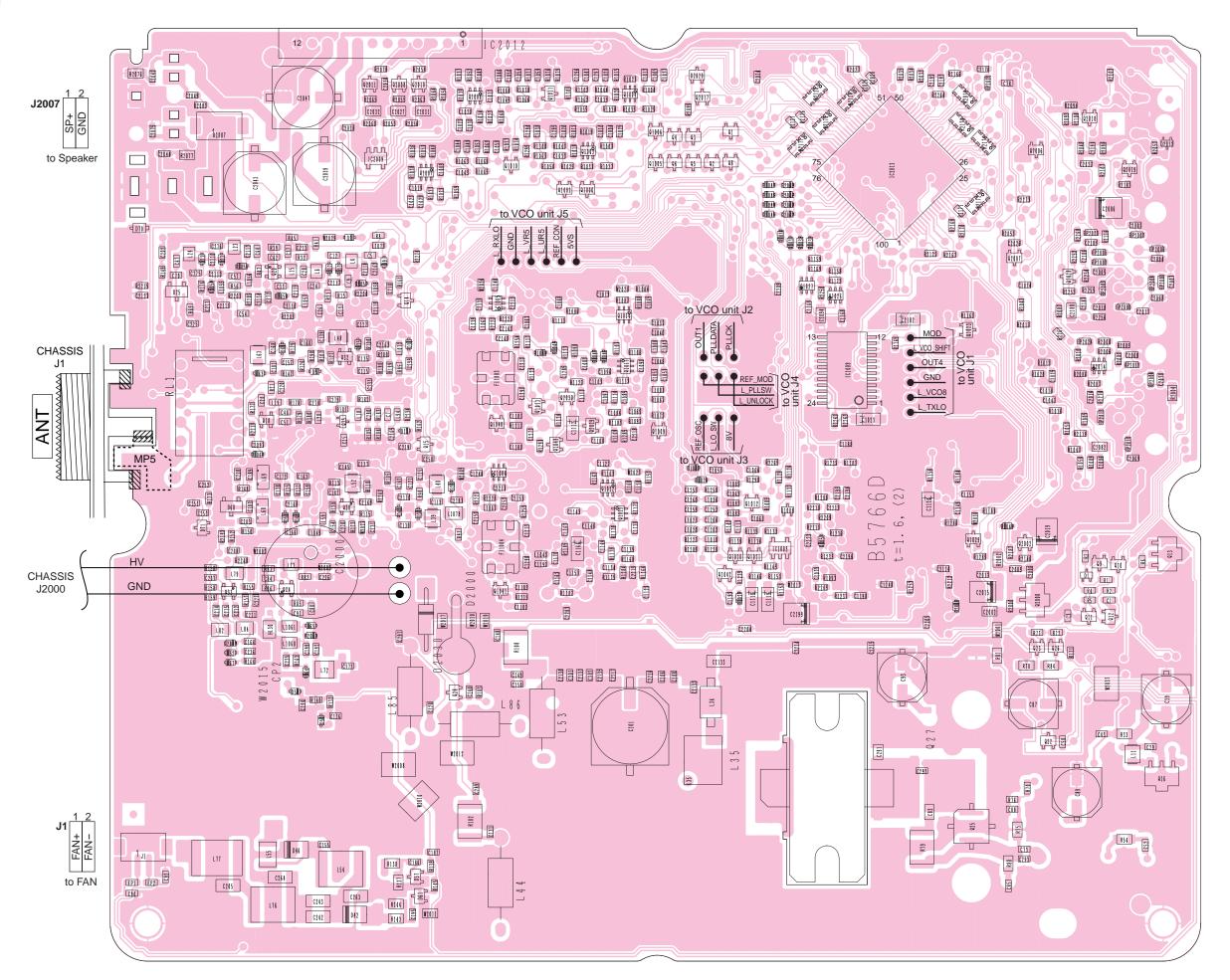
• TOP VIEW



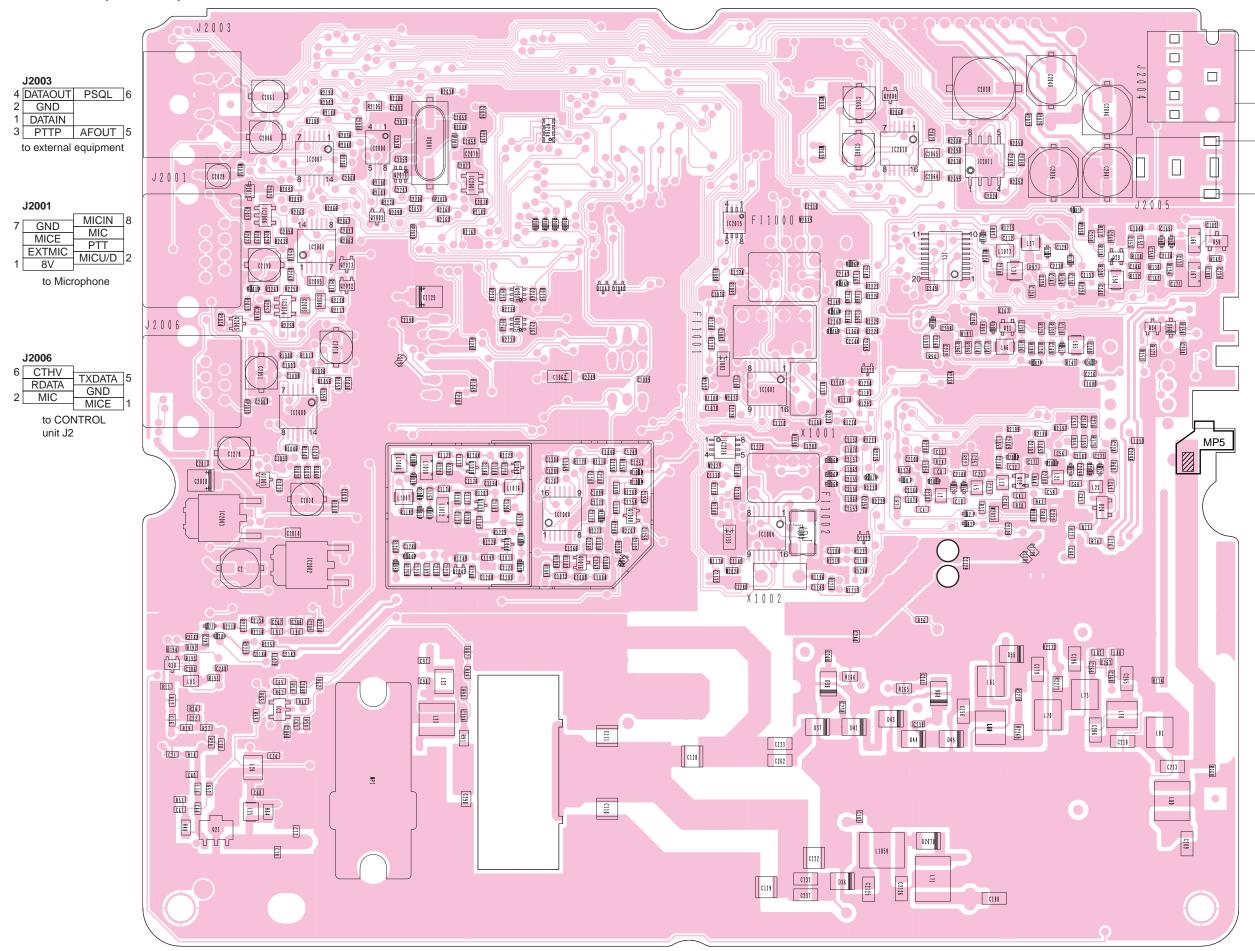
## • BOTTOM VIEW (CONTROL UNIT)

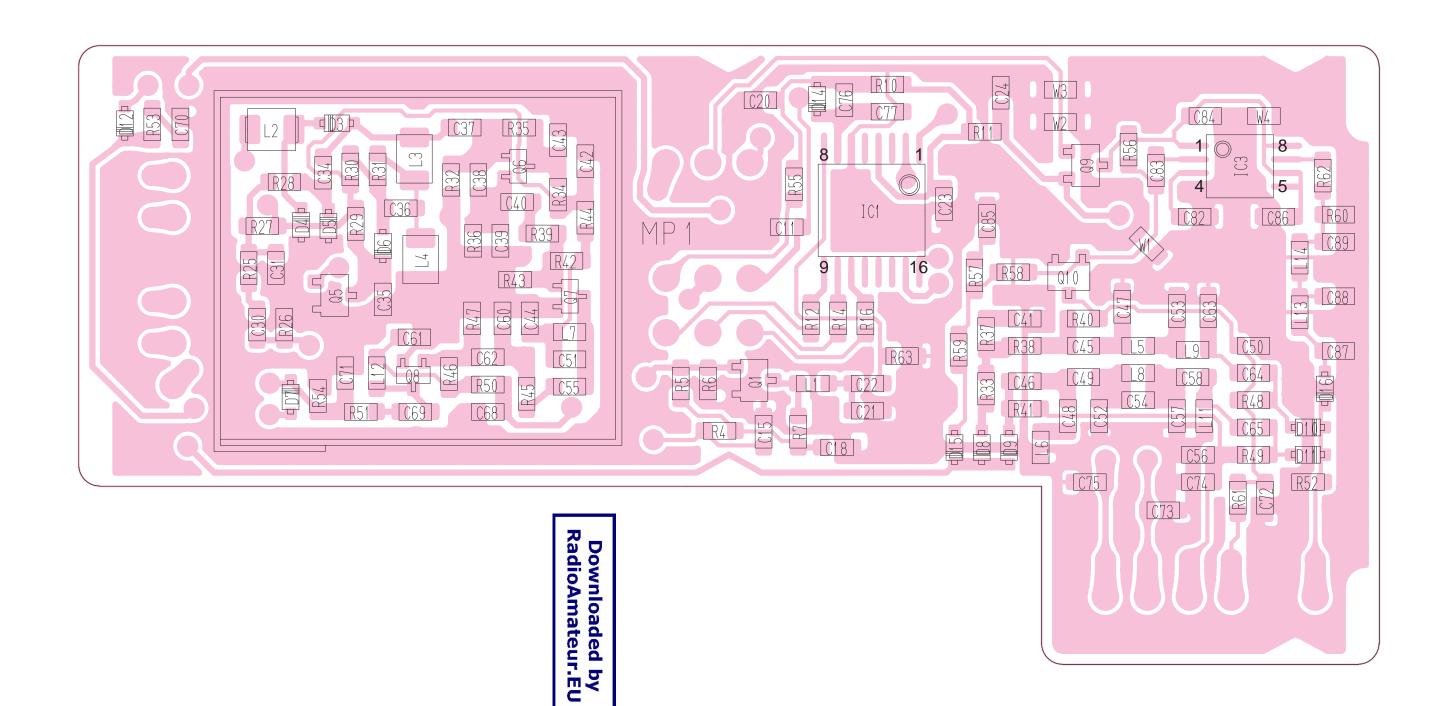






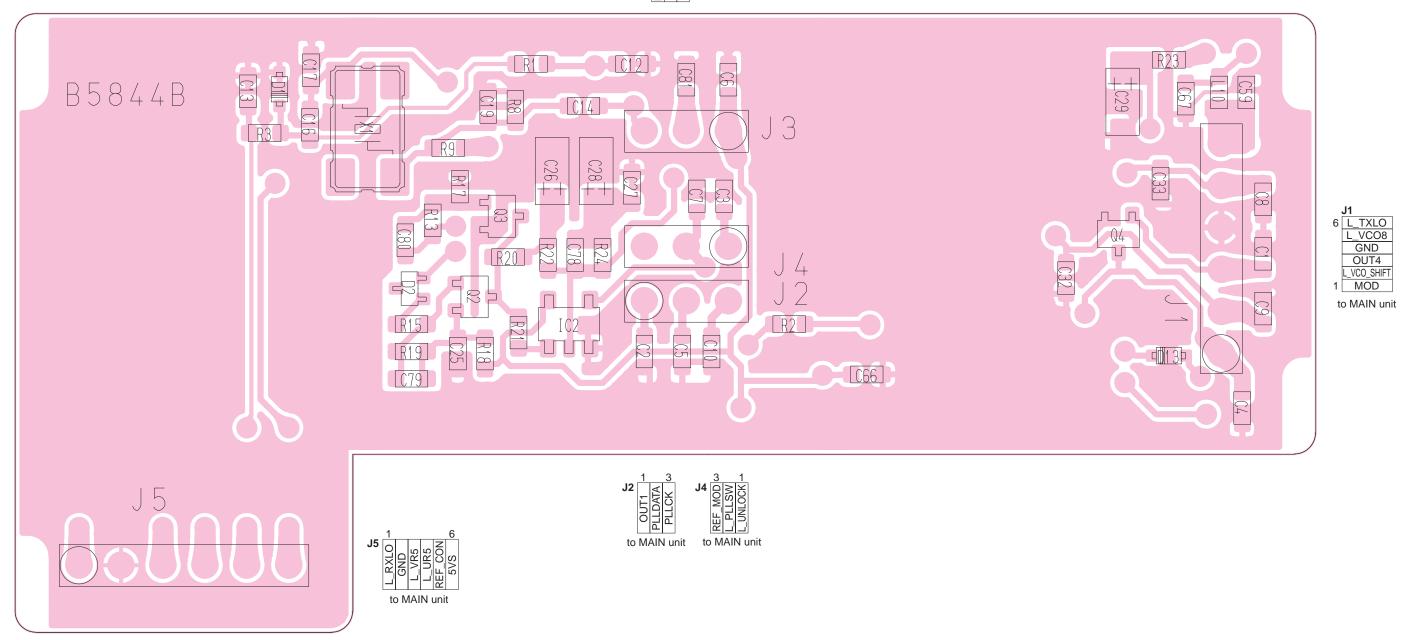
### • BOTTOM VIEW (MAIN UNIT)

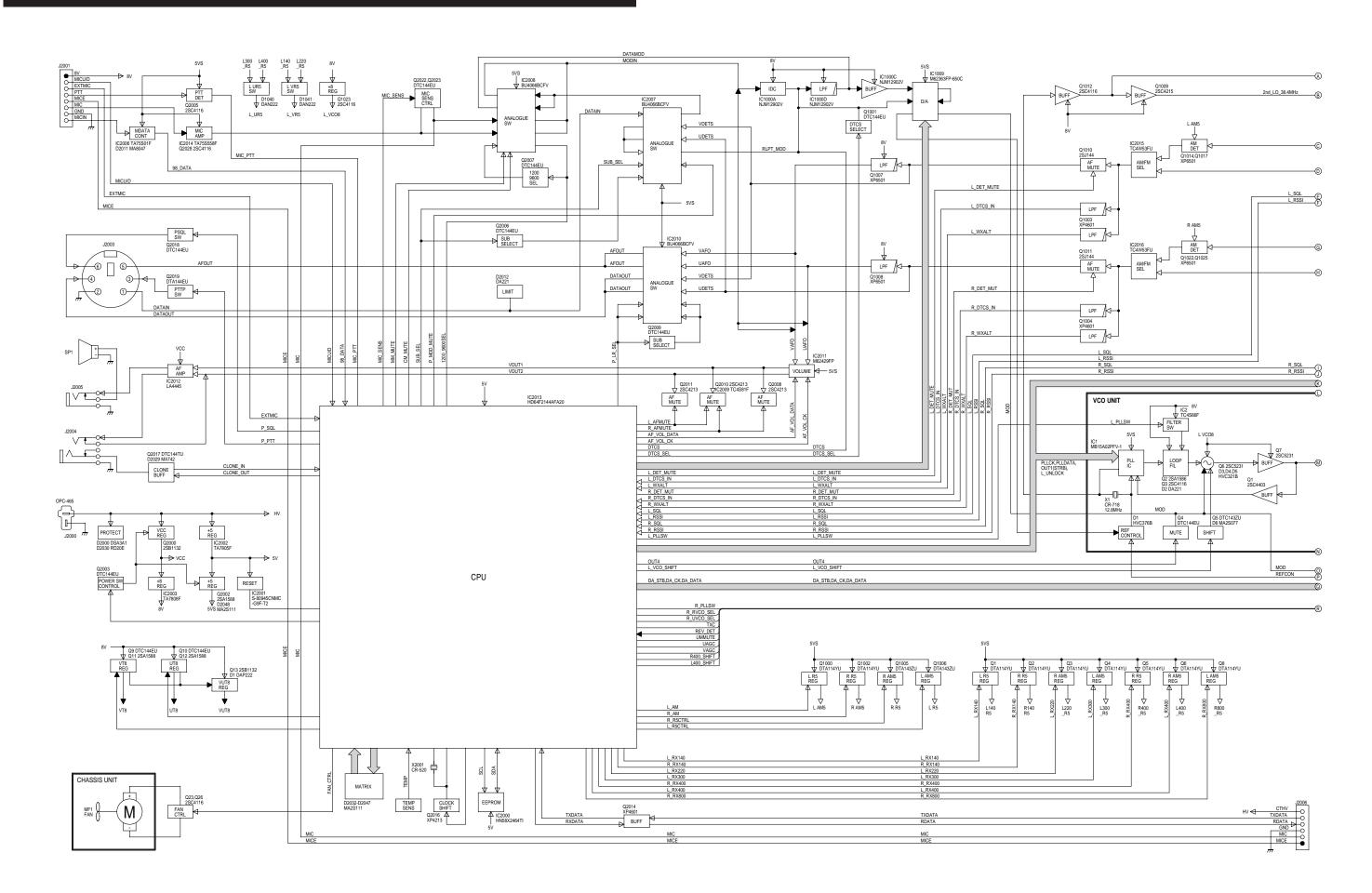


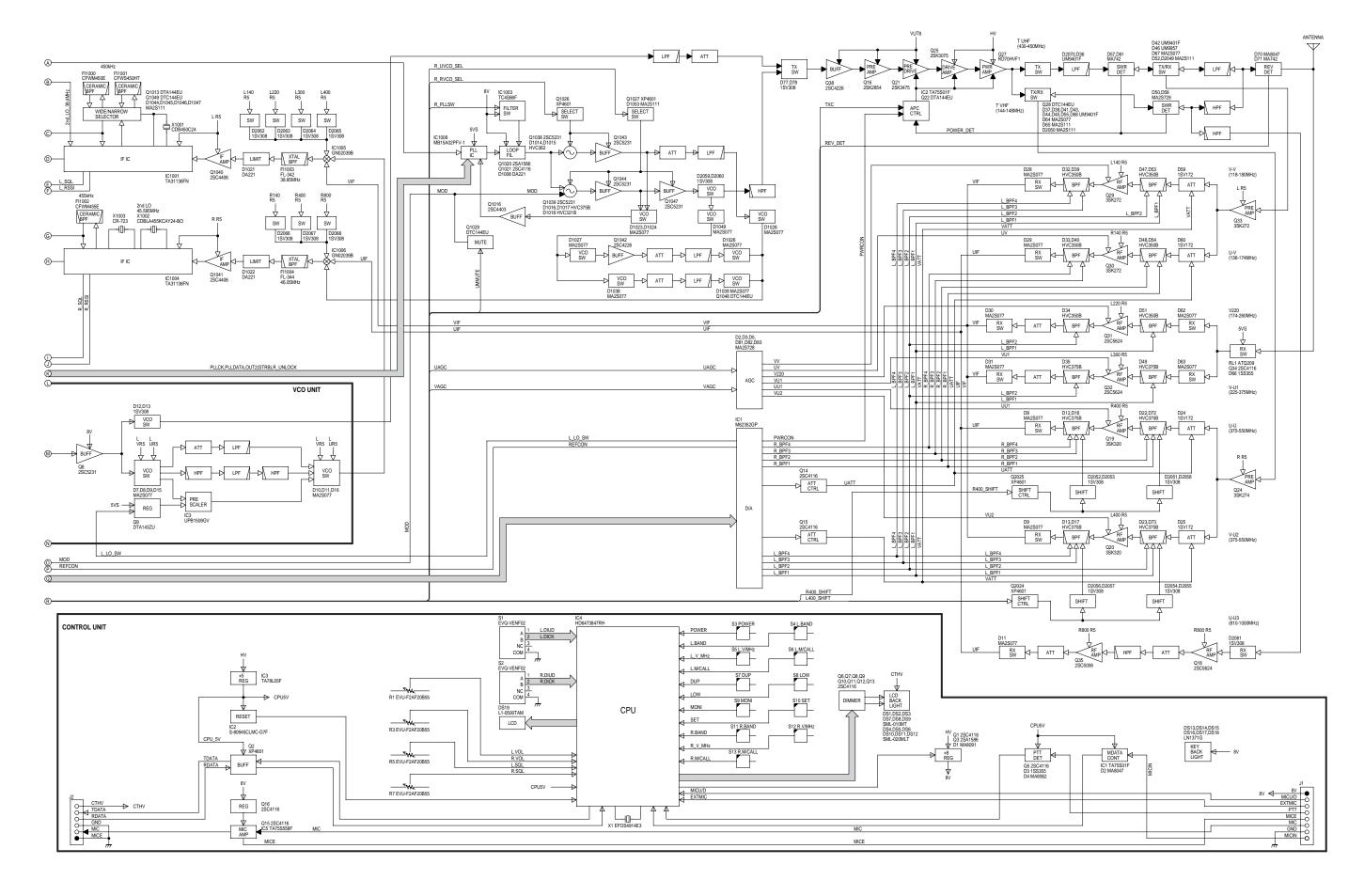


# • BOTTOM VIEW (VCO UNIT)



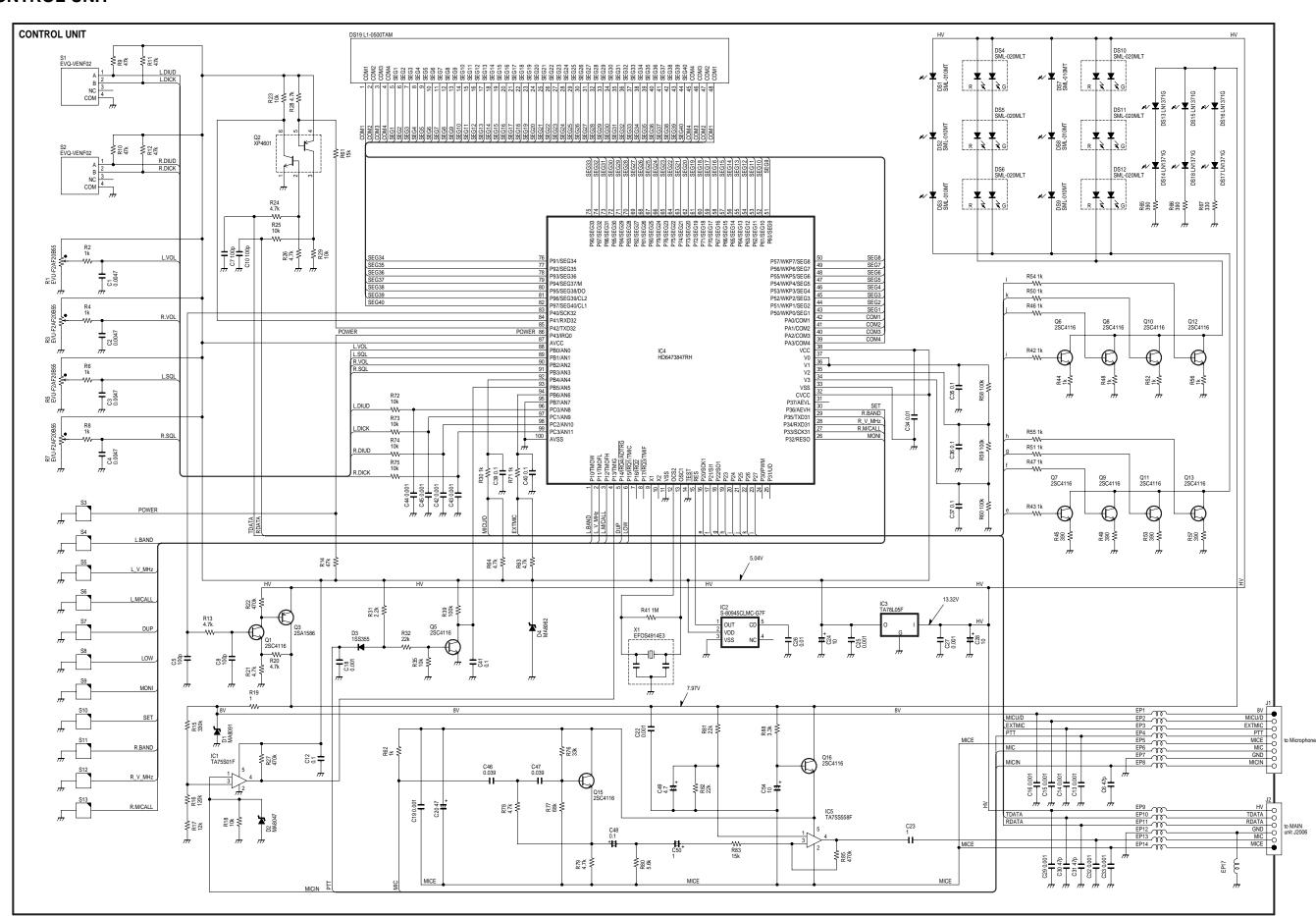


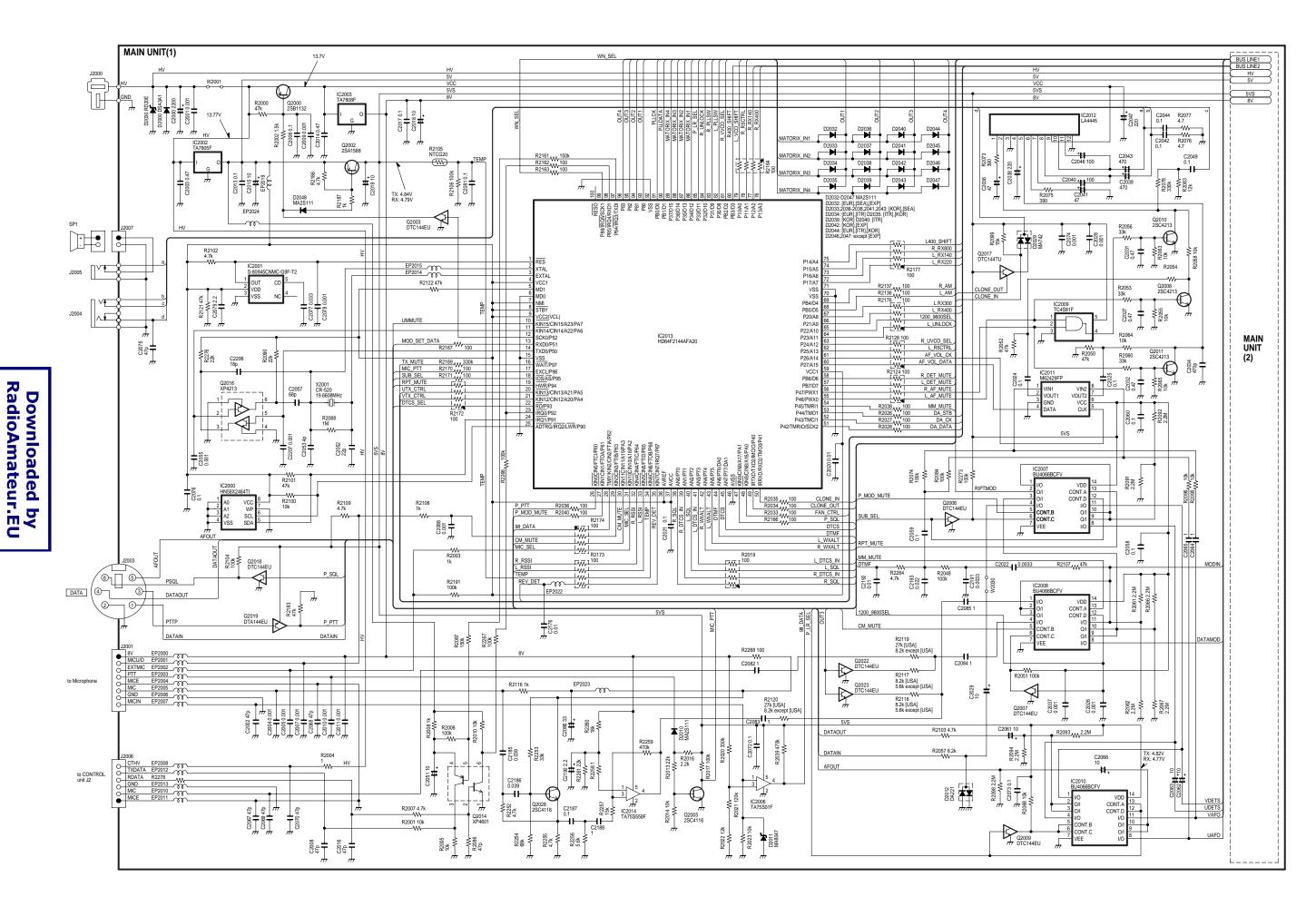


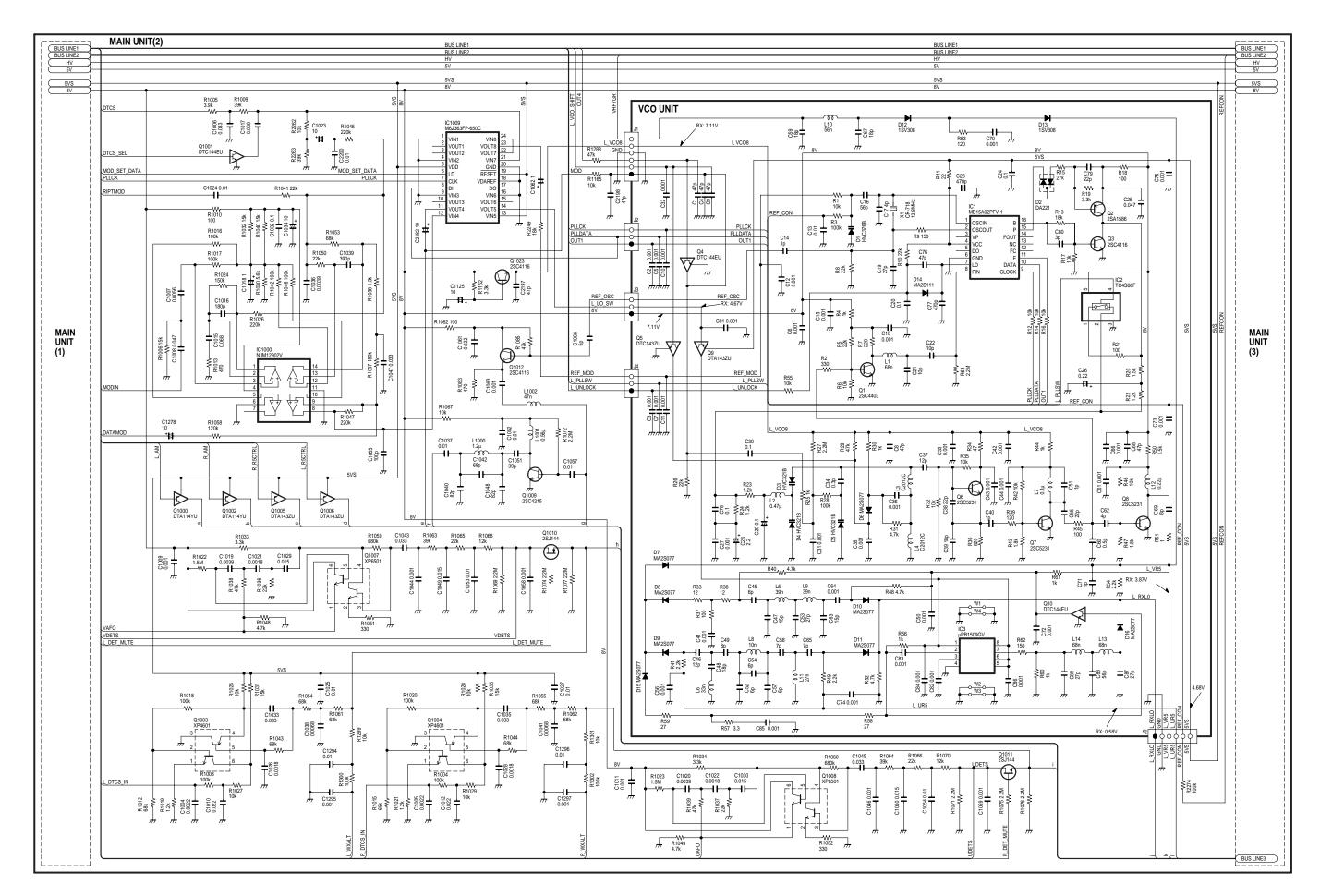


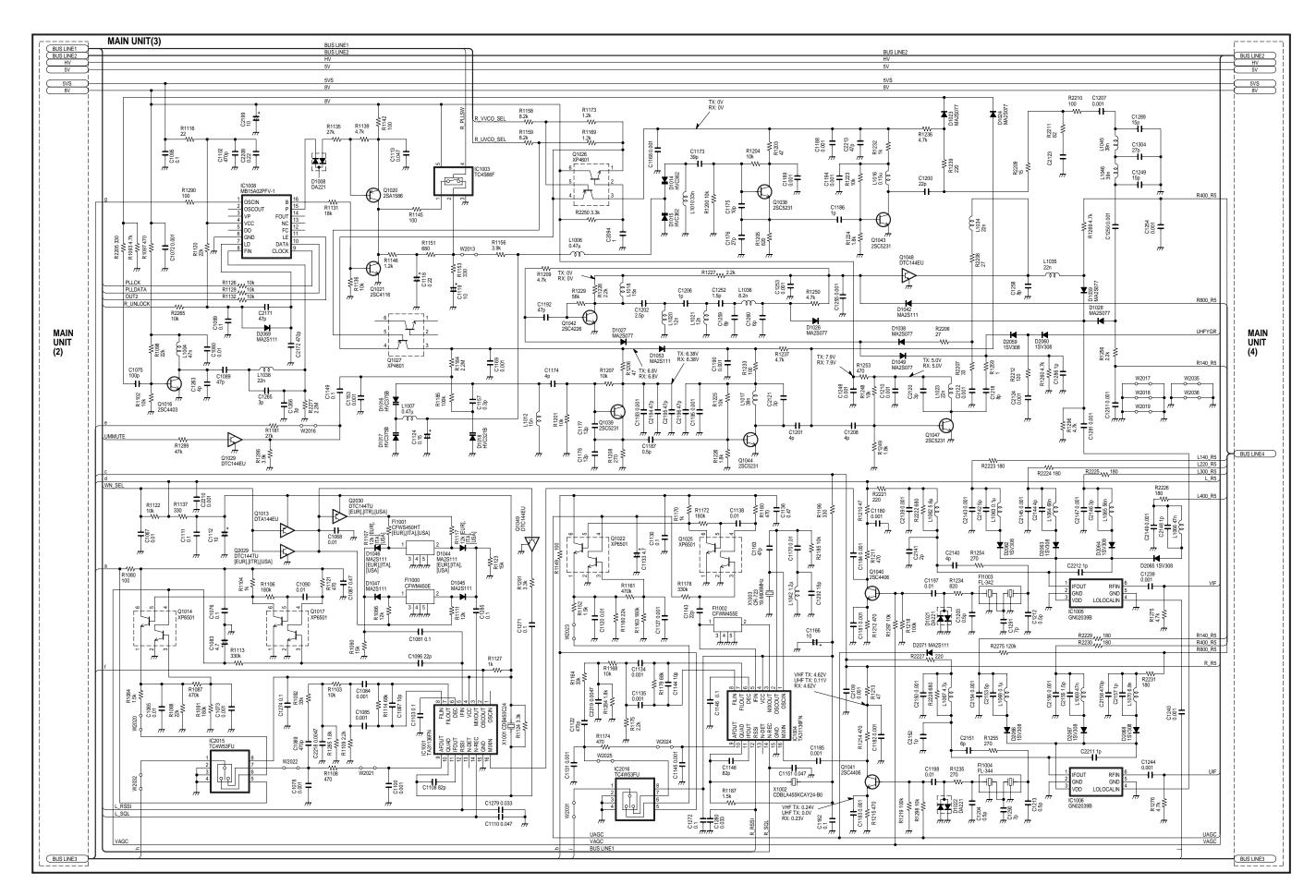
# **SECTION 10 VOLTAGE DIAGRAMS**

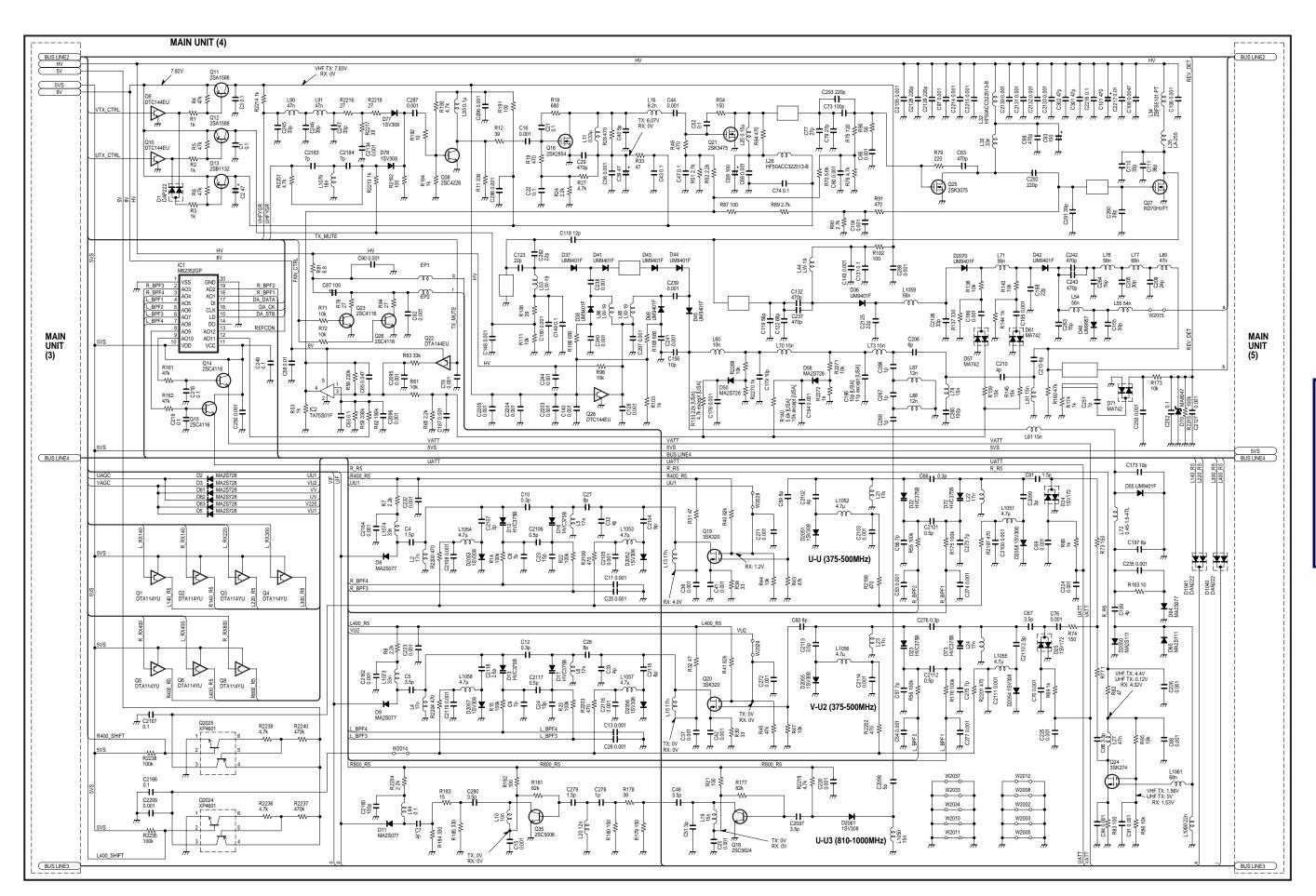
## **10-1 CONTROL UNIT**

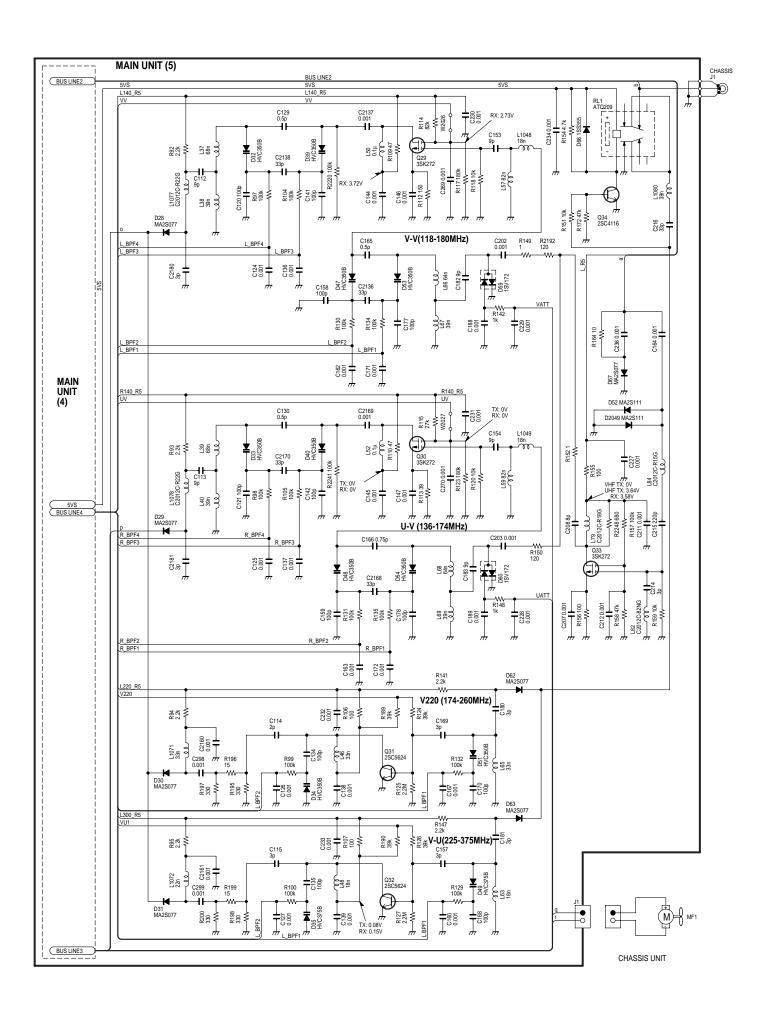












# Icom Inc.

1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan

Phone: 06 6793 5302

Fax : 06 6793 0013 URL : http://www.icom.co.jp/world/index.html

#### Icom America Inc.

COrporate Headquarters>
2380 116th Avenue N.E., Bellevue, WA 98004, U.S.A.
Phone: (425) 454-8155 Fax: (425) 454-1509
URL: http://www.icomamerica.com
<Customer Service>
Phone: (425) 454-7619

#### Icom Canada

Glenwood Centre #150-6165 Highway 17 Delta, B.C., V4K 5B8, Canada Phone: (604) 952-4266 Fax: (604) 952-0090 URL: http://www.icomcanada.com

#### Icom (Australia) Pty. Ltd.

A.B.N. 88 006 092 575 290-294 Albert Street, Brunswick, Victoria, 3056, Australia Phone: 03 9387 0666 Fax: 03 9387 0022 URL: http://www.lcom.net.au

### Icom New Zealand

146A Harris Road, East Tamaki, Auckland, New Zealand Phone: 09 274 4062 Fax: 09 274 4708 URL: http://www.icom.co.nz

#### Beijing Icom Ltd.

1305, Wanshang Plaza, Shijingshan Road, Beijing China Phone: (010) 6866 6337 Fax: (010) 6866 3553

#### Icom (Europe) GmbH

Communication Equipment
Himmelgeister Str. 100, D-40225 Düsseldorf, Germany
Phone: 0211 346047 Fax: 0211 333639
URL: http://www.icomeurope.com

#### Icom Spain S.L

Crta. de Gracia a Manresa Km. 14,750 08190 Sant Cugat del Valles Barcelona, SPAIN Phone: (93) 590 26 70 Fax: (93) 589 04 46 URL: http://www.icomspain.com

### Icom (UK) Ltd.

Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K. Phone: 01227 741741 Fax: 01227 741742 URL: http://www.icomuk.co.uk

#### Icom France S.a

Zac de la Plaine, Rue Brindejonc des Moulinais BP 5804, 31505 Toulouse Cedex, France Phone: 561 36 03 03 Fax: 561 36 03 00 URL: http://www.icom-france.com

#### Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road, Taipei, Taiwan, R.O.C. Phone : (02) 2559 1899 Fax : (02) 2559 1874

